Stage 1: D	esired Results
tandards & Indicators:	desired Results
<ul> <li>represents in the place to its right and 1/10 of what</li> <li>5.NBT.3 - Read, write, and compare decimals to the</li> <li>5.NBT.3a - Read and write decimals to thousandths form, e.g., 347.392 = 3 × 100 + 4 × 10 + 7 × 1 + 3 ×</li> </ul>	busandths. s using base-ten numerals, number names, and expanded $(1/10) + 9 \times (1/100) + 2 \times (1/1000)$ . based on meanings of the digits in each place, using >, =,
<ul> <li>IJSLS for Mathematical Practice <ul> <li>1 Make sense of problems and persevere in solvi</li> <li>2 Reason abstractly and quantitatively.</li> <li>3 Construct viable arguments and critique the reater the end of th</li></ul></li></ul>	isoning of others.
<ul> <li>problems.</li> <li>Place Value Through Millions</li> <li>Compare and Order Whole Numbers through Millions</li> <li>Hands On: Model Fractions and Decimals</li> <li>Represent Decimals</li> <li>Hands On: Understand Place Value</li> <li>Place Value through Thousandths</li> <li>Compare Decimals</li> <li>Order Whole Numbers and Decimals</li> <li>Problem-Solving Investigation: Use the Four-Step Plan</li> </ul>	<ul> <li>Skills (Objectives):</li> <li>Read and write whole numbers through millions.</li> <li>Compare and order whole numbers through millions.</li> <li>Use models to relate decimals to fractions.</li> <li>Represent fractions that name tenths, hundredths, and thousandths as decimals.</li> <li>Understand place value in decimal numbers.</li> <li>Read and write decimals in standard form, expanded form, and word form.</li> <li>Compare decimals.</li> <li>Order whole numbers and decimals.</li> <li>Solve problems using the four-step plan.</li> </ul>

#### NJSLS for Literacy

• L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.

- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- SL.ES.5.3. Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

#### **NJSLS for Social Studies**

- **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).
- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

#### NJSLS for Science

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

#### NJSLS - Career Readiness, Life Literacies, and Key Skills

- **9.4.5.Cl.3**: Participate in a brainstorming session with individuals with diverse perspectives to expand one's thinking about a topic of curiosity.
- 9.4.5.CT.1: Identify and gather relevant data that will aid in the problem-solving process.
- **9.4.5.CT.3**: Describe how digital tools and technology may be used to solve problems.
- 9.4.5.IML.2: Create a visual representation to organize information about a problem or issue.
- 9.4.5.IML.3: Represent the same data in multiple visual formats in order to tell a story about the data.
- 9.4.5.TL.2: Sort and filter data in a spreadsheet to analyze findings.
- 9.4.5.TL.5: Collaborate digitally to produce an artifact.

### Stage 2: Assessment Evidence

#### Diagnostic Assessment:

• Am I Ready?

#### Formative Assessments:

- Summarize
- Direct Paraphrasing
- Debriefing
- Analogy Prompt
- Ticket Out the Door
- Vocabulary
- Application Cards
- Error Analysis
- Self-Assessment
- Talk Math

#### Summative Assessment:

- My Review
- Reflect
- Chapter 1 Assessment
- Chapter 1 Performance Task

#### **Benchmark Assessment:**

• n/a

Independent Practice			
Check My Progress			
Stage 3: Learning Plan			
Learning Opportunities/Strategies: Resources:			
Chapter Introduction			
<b>Objective:</b> Use diagnostic resources to determine which level of instruction is needed to help students get ready for the chapter.			
<ul> <li>Chapter Introduction:</li> <li>Introduce the chapter by discussing the theme, "Let's Go Outdoors!"</li> <li>View online video to spark a discussion about how math is used in things outdoors.</li> <li>Introduce the Essential Question: "How does the position of a digit in a number relate to its value?"</li> </ul>	<ul> <li>TE pg. 1</li> <li>TE/SE pg. 1</li> <li>Online Video</li> <li>TE/SE pg. 1</li> </ul>		
<ul> <li>Am I Ready?</li> <li>Complete the "Am I Ready?" assessment to determine if students have the foundational skills they need in order to successfully learn the new skills and concepts presented in this chapter.</li> </ul>	TE/SE pg. 3		
<ul> <li>My Math Words</li> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li>TE/SE pg. 4</li> <li>Review Vocabulary: comma, hundreds, hundred thousands, ones, tens, ten thousands, thousands</li> </ul>		
<ul> <li>My Vocabulary Cards</li> <li>Introduce vocabulary words and complete "My Vocabulary Cards" activity.</li> </ul>	<ul> <li>TE/SE pg. 5-8</li> <li>New Vocabulary: decimal point, decimal, equivalent decimals, expanded form, period, place, standard form, place value</li> </ul>		
<ul> <li>My Foldable</li> <li>This foldable reviews and expands students' knowledge of place value of whole numbers. Complete the "My Foldable" activities.</li> </ul>	TE/SE pg. 9-10		
<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	<ul><li>Online</li><li>Must print letter</li></ul>		
Learning Opportunities/Strategies: Lesson 1: Place Value through Millions	Resources: Follow corresponding Lesson Presentation Slides.		
<b>Objective:</b> Students will read and write whole numbers through millions.			
<ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> </ul>	TE pg. 11A-11B		

	Ι
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>New Vocabulary: period, standard form, expanded form, place, place value, place-value chart</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 11В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain how the value of the highlighted digit in the number 26,077,928 compares to the digit to its left."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 11-13</li> <li>Assign On Level set: 4-14 (even), 15-17</li> </ul>
Apply: • Problem Solving • Brain Builders	TE/SE pg. 14
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 15-16</li> <li>Direct Paraphrasing TE pg. 16</li> <li>SE pg. 15-16</li> </ul>
Learning Opportunities/Strategies: Lesson 2 - Compare and Order Whole Numbers through Millions	<b>Resources:</b> Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will compare and order whole numbers through millions.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> </ul>	<ul> <li>TE pg. 17A-17B</li> <li>Review Vocabulary: is greater than (&gt;), is less than (&lt;), is equal to (=)</li> </ul>
Problem of the Day	
Build: • Investigate the Math: Explore, Model, Extend	ТЕ рд. 17В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "When ordering whole numbers, explain what to do when</li> </ul> </li> </ul>	TE/SE pg. 17-19

<ul> <li>same value."</li> <li>Independent Practice</li> <li>Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> <li>Wrap Up: <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies: <ul> <li>Lesson 3 - Hands On</li> </ul> </li> <li>Objective: Students will use models to relate decimals to fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Draw It</li> </ul> </li> <li>Assign On Level set: 4-18 (even), 20-23</li> <li>TE/SE pg. 20</li> </ul> <li>Assign On Level set: 4-18 (even), 20-23</li> <li>TE pg. 21-22 <ul> <li>Debriefing TE pg. 22</li> <li>SE pg. 21-22</li> </ul> </li> <li>Resources: <ul> <li>Follow corresponding Lesson Presentation Slides</li> </ul> </li> <li>TE pg. 23A-23B <ul> <li>New Vocabulary: decimal, decimal point</li> </ul> </li>	
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> TE/SE pg. 20           Wrap Up: <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> TE pg. 21-22 <ul> <li>SE pg. 21-22</li> <li>SE pg. 21-22</li> <li>SE pg. 21-22</li> </ul> Learning Opportunities/Strategies:         Resources:             Lesson 3 - Hands On         Collow corresponding Lesson Presentation Slides             Objective: Students will use models to relate decimals to fractions.         Follow corresponding Lesson Presentation Slides           Review Homework: Review homework problems as needed. <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"             <ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>            Build:         TE/SE pg. 23</li></ul>	
<ul> <li>Problem Solving</li> <li>Brain Builders</li> <li>Wrap Up: <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies: <ul> <li>Leason 3 - Hands On</li> </ul> </li> <li>Objective: Students will use models to relate decimals to fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>TE pg. 21-22</li> <li>Besources:</li> <li>Follow corresponding Lesson Presentation Slides</li> </ul> </li> <li>TE pg. 23A-23B <ul> <li>New Vocabulary: decimal, decimal point</li> </ul> </li> </ul>	
<ul> <li>Brain Builders</li> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 3 - Hands On</li> </ul> </li> <li>Objective: Students will use models to relate decimals to fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"             <ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build:</li> <li>TE/SE pg. 23</li> </ul></li></ul>	E/SE pg. 20
Wrap Up:       Complete formative assessment         Assign homework       Debriefing TE pg. 22         Learning Opportunities/Strategies:       SE pg. 21-22         Lesson 3 - Hands On       Resources:         Objective: Students will use models to relate decimals to fractions.       Follow corresponding Lesson Presentation Slides         Review Homework: Review homework problems as needed.       Student Homework Page         Launch:       Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"       TE pg. 23A-23B         Explore the Day       New Vocabulary: decimal, decimal point         Build:       TE/SE pg. 23	
<ul> <li>Complete formative assessment</li> <li>Assign homework</li> <li>Learning Opportunities/Strategies: Lesson 3 - Hands On</li> <li>Objective: Students will use models to relate decimals to fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build:</li> <li>Debriefing TE pg. 22         <ul> <li>SE pg. 21-22</li> <li>Resources:</li> <li>Follow corresponding Lesson Presentation Slides</li> </ul> </li> <li>TE pg. 23A-23B</li> <li>TE pg. 23A-23B</li> </ul>	
<ul> <li>Assign homework</li> <li>SE pg. 21-22</li> <li>Learning Opportunities/Strategies: Lesson 3 - Hands On</li> <li>Objective: Students will use models to relate decimals to fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build:</li> <li>SE pg. 21-22</li> <li>Resources: Follow corresponding Lesson Presentation Slides</li> <li>TE pg. 23A-23B</li> <li>New Vocabulary: decimal, decimal point</li> </ul>	Е рд. 21-22
Learning Opportunities/Strategies:       Resources:         Lesson 3 - Hands On       Follow corresponding Lesson Presentation Slides         Objective: Students will use models to relate decimals to fractions.       Follow corresponding Lesson Presentation Slides         Review Homework: Review homework problems as needed.       Student Homework Page         Launch:       • Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"       TE pg. 23A-23B         • Developing Vocabulary       • New Vocabulary: decimal, decimal point         Build:       TE/SE pg. 23	<b>a</b> 1 <b>a</b>
Lesson 3 - Hands OnFollow corresponding Lesson Presentation SlidesObjective: Students will use models to relate decimals to fractions.Follow corresponding Lesson Presentation SlidesReview Homework: Review homework problems as needed.Student Homework PageLaunch: • Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?" • Developing Vocabulary • Problem of the DayTE pg. 23A-23BBuild:TE/SE pg. 23	• SE pg. 21-22
Objective: Students will use models to relate decimals to fractions.       Student Homework Page         Review Homework: Review homework problems as needed.       Student Homework Page         Launch: <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> TE pg. 23A-23B         Build:       TE/SE pg. 23	lesources:
fractions.         Review Homework: Review homework problems as needed.         Launch: <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> TE pg. 23A-23B <ul> <li>New Vocabulary: decimal, decimal point</li> <li>TE/SE pg. 23</li> </ul>	ollow corresponding Lesson Presentation Slides.
<ul> <li>needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build: TE/SE pg. 23</li> </ul>	
<ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> <li>Build: TE/SE pg. 23</li> </ul>	tudent Homework Page
<ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> <li>Build: TE/SE pg. 23</li> </ul>	
<ul> <li>does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> <li>Build: TE/SE pg. 23</li> </ul>	е pg. 23А-23В
<ul> <li>its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> <li>Build: TE/SE pg. 23</li> </ul>	
Problem of the Day Build: TE/SE pg. 23	
Build: TE/SE pg. 23	New Vocabulary: decimal, decimal point
Draw It     eTools	
	e Tools
Practice: TE/SE pg. 23-25	E/SE pg. 23-25
Try It     eTools	
Talk About It     eTools     Practice It	• e loois
Apply: TE/SE pg. 26	E/SE pg. 26
Apply It     Write About It	
Wrap Up:   TE/SE pg. 27-28	E/SE pg. 27-28
Assign homework	
Learning Opportunities/Strategies: Resources:	lesources:
Lesson 4 - Represent Decimals Follow corresponding Lesson Presentation Slides	ollow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will represent fractions that name	
tenths, hundredths, and thousands as decimals.	
Review Homework: Review homework problems as needed.	tudent Homework Page
Launch: TE pg. 29A-29B	Е рд. 29А-29В

<ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	Review Vocabulary: decimal
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	TE/SE pg. 29-31
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Describe a rule for writing fractions like 8/100 and</li> </ul> </li> </ul>	
<ul> <li>32/1,000 as decimals.</li> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 4-10 (even), 11-13, 16, 17</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 32
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 33-34</li> <li>Ticket Out the Door TE pg. 34</li> <li>SE pg. 33-34</li> </ul>
Learning Opportunities/Strategies: Lesson 5 - Hands On: Understand Place Value	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will understand place value in decimal numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 37А-37В
Build: • Draw It	<ul> <li>TE/SE pg. 37</li> <li>Hundredths grid</li> </ul>
Practice: • Try It • Talk About It • Practice It	TE/SE pg. 37-39
Apply: Apply It Write About It	TE/SE pg. 40

Wrap Up: Assign homework	TE/SE pg. 41-42
Learning Opportunities/Strategies: Lesson 6 - Place Value Through Thousandths	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will read and write decimals in standard form, expanded form, and word form.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to it evalue 0"</li> </ul>	ТЕ рд. 43А-43В
its value?" ● Developing Vocabulary	<ul> <li>Review Vocabulary: hundreds, hundredths, ones, place value, tens, tenths, thousands, thousandths</li> </ul>
Problem of the Day	
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 43В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Name the advantage of using 0.8 instead of 8/10."</li> </ul> </li> </ul>	TE/SE pg. 43-45
<ul> <li>Independent Practice</li> <li>Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> </ul>	<ul> <li>Assign On Level set: 8-24 (even), 25</li> <li>TE/SE pg. 46</li> </ul>
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 47-48</li> <li>Ticket Out the Door TE pg. 48</li> <li>SE pg. 47-48</li> </ul>
Learning Opportunities/Strategies: Lesson 7 - Compare Decimals	Resources: Follow corresponding Lesson Presentation Slides.
Objective: Students will compare decimals.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How does the position of a digit in a number relate to its value?"</li> </ul> </li> </ul>	ТЕ рд. 49А-49В

•	Developing Vocabulary	New Vocabulary: equivalent decimals
	Problem of the Day	
Build:		TE ng 40P
	Investigate the Math: Explore, Model, Extend	ТЕ рд. 49В
Practic	9:	TE/SE pg. 49-51
	Math in My World	
	Guided Practice Talk Math	
	• Students turn and talk: "Describe how you	
	know if two decimals are equivalent."	
•	Independent Practice	<ul> <li>Assign On Level set: 4-14 (even), 15-19</li> </ul>
Apply:		TE/SE pg. 52
	Problem Solving	
•	Brain Builders	
Wrap U	p:	TE pg. 53-54
	Complete formative assessment	• Ticket Out the Door TE pg. 54
•	Assign homework	• SE pg. 53-54
	<u>g Opportunities/Strategies:</u> 8 - Order Whole Numbers and Decimals	Resources: Follow corresponding Lesson Presentation Slides.
		· · · · · · · · · · · · · · · · · · ·
Objecti decimal	<b>ve:</b> Students will order whole numbers and s.	
<b>_</b> .		
needed.	Homework: Review homework problems as	Student Homework Page
Launch •	: Remind students of the Essential Question: "How	ТЕ рд. 55А-55В
	does the position of a digit in a number relate to	
	its value?"	
	Developing Vocabulary Problem of the Day	Review Vocabulary: decimal
-	Problem of the Day	
Build:		ТЕ рд. 55В
•	Investigate the Math: Explore, Model, Extend	
Practic	9:	TE/SE pg. 55-57
	Math in My World	
	Guided Practice Talk Math	
-	• Students turn and talk: "Discuss different	
	steps that make ordering numbers	
•	easier." Independent Practice	<ul> <li>Assign On Level set: 6-12 (even), 15-19</li> </ul>
Apply:		TE/SE pg. 58
•	Brain Builders	
<u> </u>		

When the	TE
Wrap Up:	TE pg. 59-60
<ul> <li>Complete formative assessment</li> </ul>	<ul> <li>Error Analysis TE pg. 60</li> </ul>
Assign homework	<ul> <li>SE pg. 59-60</li> </ul>
5	
Learning Opportunition/Strategies	Resources:
Learning Opportunities/Strategies:	
Lesson 9 - Problem Solving Investigation - Strategy:	Follow corresponding Lesson Presentation Slides.
Use the Four-Step Plan	
Objective: Draw a diagram to solve problems.	
Objective. Draw a diagram to solve problems.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	TE pg. 61A-61B
does the position of a digit in a number relate to	
its value?"	
<ul> <li>Problem of the Day</li> </ul>	
, ,	
Build:	
	TE NO 01D
Prepare	• TE pg. 61B
<ul> <li>Learn the Strategy</li> </ul>	<ul> <li>TE/SE pg. 61</li> </ul>
Practice:	TE/SE pg. 62
Practice the Strategy	
A 1	
Apply:	TE/SE pg. 63-64
<ul> <li>Apply the Strategy</li> </ul>	<ul> <li>Assign On Level set: 2-10 (even)</li> </ul>
<ul> <li>Review the Strategy</li> </ul>	
Wrap Up:	TE pg. 65-66
Complete formative assessment	• Summarize TE pg. 66
Assign homework	• SE pg. 65-66
Learning Opportunities/Strategies:	Resources:
Chapter 1 Review and Reflect	
Objective: Assess students' understanding of the	
vocabulary and key concepts in this chapter.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Essential Question:	
Remind students of the Essential Question: "How	
does the position of a digit in a number relate to	
its value?"	
Review:	TE/SE pg. 67-69
Vocabulary Check	
Concept Check	
Problem Solving	
Brain Builders	

Reflect: Assign homework:		TE/SE pg. 70 n/a	
Differentiation *Please note: To refer to Struggling and/or Spe			ricular accommodations are
High-Achieving Students	On Grade Level	Struggling Students	Special Needs/ELL
<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "Beyond Level"</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> </ul> </li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	StudentsSmall Group• Utilize gradual release model• Modify problem set to "On Level"• Utilize "Reteach" problem-set to model questions.• Focus on critical thinking questions at the end of the lesson.Technology• Participate in RedBird Math individualized learning path• Participate in Reflex Math individualized learning path• Utilize McGraw Hill eTools for online manipulative support• Utilize McGraw Hill Personal Tutor to demonstrate a model/sample• Utilize McGraw Hill online lesson animations to demonstrate a model/sample• Utilize the McGraw Hill English Language Learner Guide to provide	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> </ul> </li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> </ul> </li> </ul>

	<ul> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	<ul> <li>Utilize the McGraw Hill English Language Learner Guide to provide foundational support</li> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>The multilingual eGlossary can support vocabulary</li> <li>Learning Station</li> <li>My Learning Station student-led activity</li> </ul>
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### Stage 1: Desired Results

#### Standards & Indicators:

#### **NJSLS for Mathematics**

- **5.NBT.2** Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.
- **5.NBT.5** With accuracy and efficiency, multiply multi-digit whole numbers using the standard algorithm.

#### **NJSLS for Mathematical Practice**

**Chapter 2:** Multiply Whole Numbers

- **1.** Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.
- **4.** Model with mathematics.
- **5.** Use appropriate tools strategically.
- 6. Attend to precision.
- 7. Look for and make use of structure.
- 8. Look for and express regularity in repeated reasoning.

Central Idea / Enduring Understanding:	Essential/Guiding Question:
Students will	
<ul> <li>use patterns to multiply a number by a power of 10.</li> <li>use partial products to multiply two numbers.</li> <li>use the Distributive Property to multiply whole numbers.</li> <li>estimate the product of two whole numbers.</li> <li>use the standard algorithm to multiply by two-digit numbers.</li> </ul>	<ul> <li>What strategies can be used to multiply whole numbers?</li> </ul>
Content:	Skills (Objectives):
Prime Factorization	<ul> <li>Find the prime factorization of numbers.</li> </ul>
<ul> <li>Hands On: Prime Factorization Patterns</li> </ul>	<ul> <li>Explore patterns in prime factorization.</li> </ul>
<ul> <li>Powers and Exponents</li> </ul>	<ul> <li>Use powers and exponents in expressions.</li> </ul>

<ul> <li>Multiplication Patterns</li> <li>Problem-Solving Investigation: Make a Table</li> <li>Hands On: Use Partial Products and the Distributive Property</li> <li>The Distributive Property</li> <li>Estimate Products</li> <li>Multiply by One-Digit Numbers</li> <li>Multiply by Two-Digit Numbers</li> </ul>	<ul> <li>Use basic facts and patterns to multiply multiples of 10, 100, 1,000 mentally.</li> <li>Make a table to solve problems.</li> <li>Use models to relate decimals to fractions.</li> <li>Use the Distributive Property to multiply mentally</li> <li>Estimate products by using rounding and compatible numbers.</li> <li>Multiply up to a three-digit number by a one-digit number.</li> <li>Multiply up to a three-digit number by a two-digit number.</li> </ul>

### Interdisciplinary Connection(s):

#### NJSLS for Literacy

- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- **SL.ES.5.3.** Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

#### **NJSLS for Social Studies**

- **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).
- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

#### NJSLS for Science

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

#### NJSLS for Career Readiness, Life Literacies, and Key Skills

- **9.2.5.CAP.1**: Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.
- 9.4.5.CT.1: Identify and gather relevant data that will aid in the problem-solving process.
- **9.4.5.CT.3**: Describe how digital tools and technology may be used to solve problems.
- 9.4.5.GCA.1: Analyze how culture shapes individual and community perspectives and points of view.
- **9.4.5.IML.1**: Evaluate digital sources for accuracy, perspective, credibility and relevance (e.g., Social Studies Practice Gathering and Evaluating Sources).
- **9.4.5.IML.2**: Create a visual representation to organize information about a problem or issue.
- 9.4.5.TL.2: Sort and filter data in a spreadsheet to analyze findings.

Stage 2: Asses	sment Evidence
<ul> <li>Diagnostic Assessment:</li> <li>Am I Ready?</li> </ul>	Summative Assessment: • My Review • Reflect
Formative Assessments:• k Write• Think-Pair-Share• Make Sense of Problems• Summarize• Ticket Out the Door• Directed Paraphrasing• Sequence• Self Assessment• Make a Table• Analogy Prompt• Application Cards• Talk Math• Independent Practice• Check My Progress	<ul> <li>Chapter 2 - Assessment</li> <li>Chapter 2 - Performance Task</li> </ul> Benchmark Assessment: <ul> <li>n/a</li> </ul>
	arning Plan
Learning Opportunities/Strategies: Chapter Introduction Objective: Use diagnostic resources to determine which level of instruction is needed to help students get ready for the chapter.	Resources:
<ul> <li>Chapter Introduction:</li> <li>Introduce the chapter by discussing the theme, "Taking Care of My Pets"</li> <li>View online video to spark a discussion about how math is used in pet care.</li> <li>Introduce the Essential Question: "What strategies can be used to multiply whole numbers?"</li> </ul>	<ul> <li>TE pg. 71</li> <li>TE/SE pg. 71</li> <li>Online Video</li> <li>TE/SE pg. 71</li> </ul>
<ul> <li>Am I Ready?</li> <li>Complete the "Am I Ready?" assessment to determine if students have the foundational skills they need in order to successfully learn the new skills and concepts presented in this chapter.</li> </ul>	TE/SE pg. 73
<ul> <li>My Math Words</li> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li>TE/SE pg. 74</li> <li>Review Vocabulary: prime numbers, composite numbers</li> </ul>
<ul> <li>My Vocabulary Cards</li> <li>Introduce vocabulary words and complete "My Vocabulary Cards" activity.</li> </ul>	TE/SE pg. 75-78

<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE pg. 85-86</b> • Quick Write TE pg. 86 • SE pg. 85-86
Apply: • Problem Solving • Brain Builders	TE/SE pg. 84
<ul> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math         <ul> <li>Students turn and talk: "What are the first ten prime numbers?"</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 2-12 (even), 13-18</li> </ul>
Investigate the Math: Explore, Model, Extend  Practice:	TE pg. 81B TE/SE pg. 81-83
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> Build:	New Vocabulary: prime factorization
<ul> <li><b>Launch:</b> <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> </ul> </li> </ul>	TE pg. 81A-81B
<b>Objective:</b> Students will find the prime factorization of numbers.	
Learning Opportunities/Strategies: Lesson 1: Prime Factorization	Resources: Follow corresponding Lesson Presentation Slides.
<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	Online • Must print letter
<ul> <li>My Foldable</li> <li>This foldable shows that the prime factorization of one number can be found multiple ways. Complete the "My Foldable" activities.</li> </ul>	TE/SE pg. 79-80
	<ul> <li>New Vocabulary: base, compatible numbers, cubed, Distributive Property exponent, power, power of 10, prime factorization</li> </ul>

Launch:	TE pg. 87A-87B
<ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> </ul>	
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	
Build: • Build It	<ul> <li>TE/SE pg. 87-88</li> <li>hole punch, construction paper</li> </ul>
Practice: Talk About It	TE/SE pg. 88-89
Practice It	hole punch, construction paper
Apply: • Apply It	TE/SE pg. 90
Write About It	
Wrap Up:	TE/SE pg. 91-92
Assign homework	
Learning Opportunities/Strategies: Lesson 3 - Powers and Exponents	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will use powers and exponents in expressions.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	ТЕ рд. 93А-93В
<ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> </ul>	
Developing Vocabulary	<ul> <li>New Vocabulary: base, cubed, exponent, power, squared</li> </ul>
<ul> <li>Problem of the Day</li> </ul>	oqualou
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 93В
Practice:	TE/SE pg. 93-95
<ul> <li>Math in My World</li> <li>Guided Practice</li> </ul>	
Talk Math	
<ul> <li>Students turn and talk: "Explain how a factor tree helps you to write the prime factorization of a number using</li> </ul>	
exponents." <ul> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 2-16 (even), 17-19</li> </ul>
Apply:	TE/SE pg. 96

Problem Solving	
Brain Builders	
Wrap Up:	TE/SE pg. 97-98
Complete formative assessment	Ticket Out the Door TE pg. 98
Assign homework	• SE pg. 97-98
Learning Opportunities/Strategies:	Resources:
Lesson 4 - Multiplication Patterns	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will use basic facts and patterns to	
multiply multiples of 10, 100, and 1,000 mentally.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 99А-99В
Remind students of the Essential Question: "What	
strategies can be used to multiply whole	
numbers?"	
<ul> <li>Developing Vocabulary</li> </ul>	New Vocabulary: powers of 10
Problem of the Day	
Build:	TE ng 00P
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 99В
Practice:	TE/SE pg. 99-101
Math in My World	
Guided Practice	
• Talk Math	
<ul> <li>Students turn and talk: "Explain how you</li> <li>sould find the product of 20 and 10<sup>3</sup></li> </ul>	
could find the product of 29 and 10 <sup>3</sup> mentally."	
Independent Practice	<ul> <li>Assign On Level set: 4-12 (even), 13-20</li> </ul>
Apply:	TE/SE pg. 102
Problem Solving	
Brain Builders	
Wran IIn:	TE/SE pg 103 104
Wrap Up:     Complete formative assessment	• Sequence TE pg. 104
<ul> <li>Assign homework</li> </ul>	<ul> <li>Sequence re pg. 104</li> <li>SE pg. 103-104</li> </ul>
Learning Opportunities/Strategies:	Resources:
Lesson 5 - Problem Solving Investigation - Strategy:	Follow corresponding Lesson Presentation Slides.
Make a Table	
Objective: Drow a diagram to calve problems	
<b>Objective:</b> Draw a diagram to solve problems.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 105А-105В

<ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> <li>Problem of the Day</li> </ul>	
Build: • Prepare • Learn the Strategy	<ul> <li>TE pg. 105B</li> <li>TE/SE pg. 105</li> </ul>
<ul><li>Practice:</li><li>Practice the Strategy</li></ul>	TE/SE pg. 106
<ul> <li>Apply:</li> <li>Apply the Strategy</li> <li>Review the Strategy</li> </ul>	<ul> <li>TE/SE pg. 107-108</li> <li>Assign On Level set: 2-8 (even)</li> </ul>
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 109-110</li> <li>Make a Table TE pg. 110</li> <li>SE pg. 109-110</li> </ul>
Learning Opportunities/Strategies: Lesson 6 - Hands On - Use Partial Products and the Distributive Property	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore multiplication by using area models.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 113А
Build: • Draw It	TE/SE pg. 113
Practice: • Try It • Talk About It • Practice It	TE/SE pg. 113-115
Apply: • Apply It • Write About It	TE/SE pg. 116
Wrap Up: Assign homework	TE/SE pg. 117-118

Learning Opportunities/Strategies:	Posourcos:
Lesson 7 - The Distributive Property	Resources: Follow corresponding Lesson Presentation Slides.
	i onow corresponding Lesson Fresentation Sildes.
<b>Objective:</b> Students will use the Distributive Property to multiply mentally.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> </ul> </li> </ul>	ТЕ рд. 119А-119В
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	New Vocabulary: Distributive Property
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 119В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain how to use the Distributive Property to find a product mentally."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 119-121</li> <li>Assign On Level set: 4-10 (even), 11-15</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 122
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 123-124</li> <li>Ticket Out the Door TE pg. 124</li> <li>SE pg. 123-124</li> </ul>
Learning Opportunities/Strategies: Lesson 8 - Estimate Products	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will estimate products by using rounding and compatible numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> </ul> </li> </ul>	ТЕ рд. 125А-125В
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	New Vocabulary: compatible numbers
Build:	TE pg. 125B

Investigate the Math: Explore, Model, Extend	
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Show two different ways you could estimate 312 x 18."</li> </ul> </li> </ul>	TE/SE pg. 125-127 • calculator
Independent Practice	<ul> <li>Assign On Level set: 4-14 (even), 15-19</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 128
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 129-130</li> <li>Ticket Out the Door TE pg. 130, index card</li> <li>SE pg. 129-130</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 9 - Multiply by One-Digit Numbers	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will multiply up to a three-digit number by a one-digit number.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> <li>Developing Vocabulary</li> </ul>	<ul> <li>TE pg. 131A-131B</li> <li>Review Vocabulary: factor, product</li> </ul>
<ul> <li>Problem of the Day</li> <li>Build: <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> </ul>	ТЕ рд. 131В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Describe each step for finding 416 x 3."</li> </ul> </li> </ul>	TE/SE pg. 131-133
Independent Practice	Assign On Level set: 2-14 (even), 15-18
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 134
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 135-136</li> <li>Quick Write TE pg. 136</li> <li>SE pg. 135-136</li> </ul>

Learning Opportunities/Strategies: Lesson 10 - Multiply by Two-Digit Numbers Objective: Students will multiply up to a three-digit number by a two-digit number.	Resources: Follow corresponding Lesson Presentation Slides.
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> </ul> </li> </ul>	ТЕ рд. 137А-137В
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	Review Vocabulary: estimate, product
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 137В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Describe how addition is used when you multiply two-digit numbers."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 137-139</li> <li>Assign On Level set: 2-14 (even), 15-18</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 140
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE/SE pg. 141-142</b> <ul> <li>Sequence TE pg. 142</li> <li>SE pg. 141-142</li> </ul>
Learning Opportunities/Strategies: Chapter 2 Review and Reflect	Resources:
<b>Objective:</b> Assess students' understanding of the vocabulary and key concepts in this chapter.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Essential Question:</li> <li>Remind students of the Essential Question: "What strategies can be used to multiply whole numbers?"</li> </ul>	
Review: • Vocabulary Check • Concept Check	TE/SE pg. 145-147

<ul><li> Problem Solving</li><li> Brain Builders</li></ul>			
Reflect:		TE/SE pg. 148	
Assign homework:		Fluency Practice TE/SE pg.	143-144
Differentiation *Please note: Te to refer to Struggling and/or Spe			icular accommodations are
High-Achieving Students	On Grade Level Students	Struggling Students	Special Needs/ELL
<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "Beyond Level"</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul> </li> </ul>	<ul> <li>Small Group</li> <li>Utilize gradual release model</li> <li>Modify problem set to "On Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Technology</li> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language</li> </ul>	<ul> <li>Small Group</li> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> <li>Technology</li> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson</li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to</li> </ul></li></ul>

Learner Guide to provide	demonstrate a model/sample • Utilize the McGraw Hill English Language Learner Guide to provide	demonstrate a model/sample • Utilize the McGraw Hill English Language Learner Guide to provide foundational support • Specific use of modalities - kinesthetic, visual, auditory, tactile • The multilingual eGlossary can support vocabulary Learning Station • My Learning Station student-led activity
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Chapter 3: Divide by a One-Digit Divisor		
Stage 1: Desired Results		
Standards & Indicators:		
<ul> <li>NJSLS for Mathematics</li> <li>5.NBT.6 - Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</li> </ul>		
<ul> <li>NJSLS for Mathematical Practice</li> <li>1 Make sense of problems and persevere in solving them.</li> <li>2 Reason abstractly and quantitatively.</li> <li>3 Construct viable arguments and critique the reasoning of others.</li> <li>4 Model with mathematics.</li> <li>5 Use appropriate tools strategically.</li> <li>6 Attend to precision.</li> <li>7 Look for and make use of structure.</li> <li>8 Look for and express regularity in repeated reasoning.</li> </ul>		
<ul> <li>Central Idea / Enduring Understanding: Students will</li> <li>make a model for division.</li> <li>divide mentally.</li> <li>estimate quotients.</li> <li>use the Distributive Property to find quotients of three-digit dividends and one-digit divisors.</li> <li>solve division problems that result in two-, three-, and four-digit quotients.</li> </ul>	<ul> <li>Essential/Guiding Question:</li> <li>What strategies can be used to divide whole numbers?</li> </ul>	
Content: • Relate Division to Multiplication • Hands On: Division Models	<ul> <li>Skills (Objectives):</li> <li>Understand how division and multiplication are related.</li> </ul>	

<ul> <li>Two-Digit Dividends</li> <li>Division Patterns</li> <li>Estimate Quotients</li> <li>Hands On: Division Models with Greater Numbers</li> <li>Hands On: Distributive Property and Partial Quotients</li> <li>Divide Three- and Four-Digit Dividends</li> <li>Place the First Digit</li> <li>Quotients with Zeros</li> <li>Hands On: Use Models to Interpret the Remainder</li> <li>Interpret the Remainder</li> <li>Problem-Solving Investigation: Determine extra or Missing Information</li> </ul>	<ul> <li>Explore division using models.</li> <li>Carry out division with and without remainders.</li> <li>Use basic facts and patterns to divide multiples of 10, 100, and 1,000 mentally.</li> <li>Estimate quotients by using rounding and compatible numbers.</li> <li>Explore division with greater numbers using models.</li> <li>Divide using the Distributive Property and partial quotients.</li> <li>Divide up to a four-digit number by a one-digit number.</li> <li>Understand how to place the first digit in a quotient.</li> <li>Solve division problems that result in quotients that have zeros.</li> <li>Explore how to interpret the remainder in a division problem.</li> <li>Interpret the remainder in a division problem.</li> <li>Identify extra information or missing information needed to solve a problem.</li> </ul>

#### Interdisciplinary Connection(s):

#### NJSLS for Literacy

- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- **SL.ES.5.3.** Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

#### NJSLS for Science

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

#### NJSLS for Career Readiness, Life Literacies, and Key Skills

- **9.4.5.Cl.3**: Participate in a brainstorming session with individuals with diverse perspectives to expand one's thinking about a topic of curiosity.
- 9.4.5.CT.1: Identify and gather relevant data that will aid in the problem-solving process.
- 9.4.5.IML.2: Create a visual representation to organize information about a problem or issue.

- 9.4.5.IML.3: Represent the same data in multiple visual formats in order to tell a story about the data.
- **9.4.5.IML.6**: Use appropriate sources of information from diverse sources, contexts, disciplines, and cultures to answer questions.
- **9.4.5.TL.3**: Format a document using a word processing application to enhance text, change page formatting, and include appropriate images, graphics, or symbols.
- 9.4.5.TL.4: Compare and contrast artifacts produced individually to those developed collaboratively.
- 9.4.5.TL.5: Collaborate digitally to produce an artifact.

#### Stage 2: Assessment Evidence **Diagnostic Assessment:** Summative Assessment: • Am I Ready? Mv Review • Reflect • **Formative Assessments:** Chapter 3 - Assessment • Vocabulary Chapter 3 - Performance Task • • Quick Write • Use Appropriate Tools **Benchmark Assessment:** Send a Problem Benchmark Test 1 (covers chapters 1-3) • • Turn to Your Partner • Reflections • Ticket Out the Door • **Direct Paraphrasing** • • Sequence • Summarize Send a Problem • Think-Pair-Share • Talk Math • Independent Practice • • Check My Progress **Stage 3: Learning Plan** Learning Opportunities/Strategies: **Resources:** Chapter Introduction **Objective:** Use diagnostic resources to determine which level of instruction is needed to help students get ready for the chapter. **Chapter Introduction:** TE pg. 149 • Introduce the chapter by discussing the theme, TE/SE pg. 149 "Let's Help Others!" • View online video to spark a discussion about Online Video how math is used when helping others." Introduce the Essential Question: "What TE/SE pg. 149 strategies can be used to divide whole numbers?" Am I Ready? TE/SE pg. 151 Complete the "Am I Ready?" assessment to • determine if students have the foundational skills they need in order to successfully learn the new skills and concepts presented in this chapter. My Math Words TE/SE pg. 152

<ul> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li>Review Vocabulary: compatible numbers, multiples, place value, product</li> </ul>
<ul> <li>My Vocabulary Cards</li> <li>Introduce vocabulary words and complete "My Vocabulary Cards" activity.</li> </ul>	<ul> <li>TE/SE pg. 153-154</li> <li>New Vocabulary: dividend, divisor, fact family, partial quotients, quotient, remainder, unknown, variable</li> </ul>
<ul> <li>My Foldable</li> <li>This foldable will be used to take notes of important key concepts throughout the chapter. Complete the "My Foldable" activities.</li> </ul>	TE/SE pg. 155-156
<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	<ul><li>Online</li><li>Must print letter</li></ul>
Learning Opportunities/Strategies: Lesson 1: Relate Division to Multiplication	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will understand how division and multiplication are related.	
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>TE pg. 157A-157B</li> <li>New Vocabulary: variable, fact family, unknown</li> </ul>
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 157В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Describe how you could use multiplication to find 21 ÷ 7 - x."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 157-159</li> <li>Assign On Level set: 4-18 (even), 19-23</li> </ul>
Apply: • Problem Solving • Brain Builders	TE/SE pg. 160
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE pg. 161-162</b> • Quick Write TE pg. 162 • SE pg. 161-162
Learning Opportunities/Strategies: Lesson 2 - Hands On - Division Models	Resources: Follow corresponding Lesson Presentation Slides.

<b>Objective:</b> Students will explore division using models.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 163А
Build: • Build It	<ul><li>TE/SE pg. 163</li><li>base-ten blocks</li></ul>
Practice: • Try It • Talk About It • Practice It Apply: • Apply It	<ul> <li>TE/SE pg. 164-165</li> <li>base-ten blocks</li> <li>base-ten blocks</li> <li>base-ten blocks</li> </ul> TE/SE pg. 166 <ul> <li>base-ten blocks</li> </ul>
Write About It     Wrap Up:	TE/SE pg. 167-168
Assign homework <u>Learning Opportunities/Strategies:</u> Lesson 3 - Two-Digit Dividends	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will carry out division with and without remainders.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> <li>Developing Vocabulary</li> </ul>	<ul> <li>TE pg. 169A-169B</li> <li>New Vocabulary: dividend, divisor, quotient, remainder</li> </ul>
Problem of the Day	Temainder
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 169В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "What should you do if the remainder is greater than or equal to the divisor?"</li> </ul> </li> </ul>	TE/SE pg. 169-171

<ul> <li>Independent Practice</li> <li>Assign On Level set: 4-14 (even), 15-18</li> <li>Apply:         <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> <li>Wrap Up:             <ul> <li>Complete formative assessment</li> <li>Step 173-174</li> <li>Turn to Your Partner TE pg. 174</li> <li>Seg pg. 173-174</li> <li>Turn to Your Partner TE pg. 174</li> <li>Seg pg. 173-174</li> <li>Students will use basic facts and patterns to divide multiples of 10, 100, and 1,000 mentally.</li> </ul> </li> <li>Review Homework: Review homework problems as needed.</li> </ul> <li>Review Homework: Review homework problems as needed.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Investigate the Math: Explore, Model, Extend</li> <li>Investigate the Math: Explore, Model, Extend</li> <li>Problem Solving         <ul> <li>Student Homework is assign On Level set: 2-18 (even), 19</li> </ul> </li> <li>Build:             <ul> <li>Independent Practice</li> <li>Talk Math                 <ul> <li>Student Sturm and talk: "Explain how you or obtem Solving</li> <li>Student Sturm and talk: "Explain how you or obtem Solving</li> <li>Student Builders</li> <li>Assign On Level set: 2-18 (even), 19</li> </ul> </li> <li>Apply:         <ul> <li>Independent Practice</li> <li>Talk Math</li> <li>Students turn and talk: "Explain how you or obtem Solving</li> <li>Brain Builders</li> <li>Terse pg. 178-177</li> <li>Assign On Level set: 2-18 (even), 19</li> <li>Apply:                  <ul> <li>Student Builders</li></ul></li></ul></li></ul></li>		1
Problem Solving         Brain Builders         Wrap Up:         Complete formative assessment         Assign homework         Learning Opportunities/Strategies:         Lesson 4 - Division Patterns         Objective: Students will use basic facts and patterns to divide multiples of 10, 100, and 1,000 mentally.         Review Homework: Review homework problems as needed.         Review Homework: Review homework problems as needed.         • Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"         • Developing Vocabulary         • Problem of the Day         Build: • Investigate the Math: Explore, Model, Extend         Practice: • Math in My World • Guided Practice • Talk Math • Students formative assessment • Independent Practice         • Mathin My World • Guidee formative assessment • Assign non Level set: 2-18 (even), 19         TE/SE pg. 175-177         • Assign on Level set: 2-18 (even), 19         TE/SE pg. 178         * Terse pg. 179-180         • Complete formative assessment • Assign homework         • Students formative assessment • Assign homework         • Stimate Quotients         Kearning Opportunities/Strategies: Lesson 5 - Estimate Quotients         Builders	Independent Practice	• Assign On Level set: 4-14 (even), 15-18
<ul> <li>Brain Builders <sup>•</sup></li> <li>Brain Builders <sup>•</sup></li> <li>Complete formative assessment Assign homework</li> <li>Turn to Your Partner TE pg. 174 • Turn to Your Partner TE pg. 174 • Turn to Your Partner TE pg. 174 • SE pg. 173-174</li> <li>Turn to Your Partner TE pg. 174 • SE pg. 173-174</li> <li>Eventor Students will use basic facts and patterns to divide multiples of 10, 100, and 1,000 mentally.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Rewind students of the Essential Question: "What strategies can be used to divide whole numbers?" • Developing Vocabulary • Problem of the Day</li> <li>Build: • Investigate the Math: Explore, Model, Extend</li> <li>Practice: • Math in My World • Guided Practice • Students turn and talk: "Explain how you could find the product of 29 and 10<sup>5</sup> mentally." • Independent Practice</li> <li>Apply: • Complete formative assessment • Complete formative assessment • Complete formative assessment • Assign Ann Level set: 2-18 (even), 19</li> <li>TE/SE pg. 175-177</li> <li>Assign Annework</li> <li>Ster pg. 178-180 • Ticket Out the Door TE pg. 180 • Ster pg. 179-180</li> <li>Ster pg. 179-180</li> <li>Ster pg. 179-180</li> <li>Ster pg. 179-180</li> </ul>	Apply:	TE/SE pg. 172
Wrap Up: • Complete formative assessment • Assign homeworkTE/SE pg. 173-174 • Turn to Your Partner TE pg. 174 • SE pg. 173-174Learning Opportunities/Strategies: Lesson 4 - Division PatternsResources: Follow corresponding Lesson Presentation Slides.Objective: Students will use basic facts and patterns to divide multiples of 10, 100, and 1,000 mentally.Student Homework PageReview Homework: Review homework problems as needed.Student Homework PageLaunch: • Remind students of the Essential Question: "What strategies can be used to divide whole numbers?" • Developing Vocabulary • Problem of the DayTE pg. 175A-175B • Review Vocabulary: multiple, tensBuild: • Investigate the Math: Explore, Model, ExtendTE pg. 175BPractice: • Tatk Math • Students turn and talk: "Explain how you could find the product of 29 and 103 mentally." • Independent PracticeTE/SE pg. 175-177Apply: • Problem Solving • Brain BuildersTE/SE pg. 178-1788Wrap Up: • Complete formative assessment • Assign homeworkTE/SE pg. 179-180 • TickK Out the Door TE pg. 180 • Ste pg. 179-180Kyrap Up: • Complete formative assessment • Assign homeworkTickSE pg. 179-180 • TickK Out the Door TE pg. 180 • Ste pg. 179-180Learning Opportunities/Strategies: Lesson 5 - Estimate Quotients by usingResources: Follow corresponding Lesson Presentation Slides.	8	
<ul> <li>Complete formative assessment</li> <li>Assign homework</li> <li>Assign homework</li> <li>Assign homework</li> <li>Strategies: Lesson 4 - Division Patterns</li> <li>Objective: Students will use basic facts and patterns to divide multiples of 10, 100, and 1,000 mentally.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: 'What strategies can be used to divide whole numbers?' Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build:             <ul> <li>Investigate the Math: Explore, Model, Extend</li> <li>Problem of the Day</li> </ul> </li> <li>Build:             <ul> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> <li>Taik Math             <ul> <li>Strobelen Solving</li> <li>Brain Builders</li> <li>Complete formative assessment</li> <li>Assign homework</li> <li>Complete formative assessment</li> <li>Assign homework</li> <li>Step 179-180</li> <li>Ticket Out the Door TE pg. 180             <ul> <li>Step 179-180</li> <li>Step 179-180</li> <li>Step 179-180</li> <li>Step 179-180</li> </ul> </li> </ul></li></ul></li></ul>	Brain Builders	
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<ul> <li>Assign homework</li> <li>SE pg. 173-174</li> <li>Learning Opportunities/Strategies: Lesson 4 - Division Patterns</li> <li>Objective: Students will use basic facts and patterns to divide multiples of 10, 100, and 1,000 mentally.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build:         <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> <li>Practice:         <ul> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math                 <ul> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> <li>Taik Math                 <ul> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> <li>Taris Builders</li> </ul> </li> <li>Wrap Up:                     <ul> <li>Complete formative assessment</li> <li>Assign homework</li> <li>Seign homework</li> <li>Seign portunities/Strategies:</li> <li>Lesson 5 - Estimate Quotients</li> <li>Diportunities/strategies:</li> <li>Seign bore work</li> <li>Seign bore proteintive assessment</li> <ul> <li>Assign homework</li> <li>Seign bore work</li> <li>Seign bore work</li> <li>Seign bore work</li> <li>Seign bore work</li> <li>Se</li></ul></ul></li></ul></li></ul></li></ul>		
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Launch:       Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"       TE pg. 175A-175B         Developing Vocabulary       Review Vocabulary: multiple, tens         Problem of the Day       TE pg. 175B         Build:       TE pg. 175B         Investigate the Math: Explore, Model, Extend       TE pg. 175-177         Practice:       Math in My World         Guided Practice       Talk Math         Students turn and talk: "Explain how you could find the product of 29 and 10° mentally."       Assign On Level set: 2-18 (even), 19         Apply:       Problem Solving         Problem Solving       TE/SE pg. 179-180         Complete formative assessment       Ticket Out the Door TE pg. 180         Assign homework       SE pg. 179-180         Learning Opportunities/Strategies:       Resources:         Leason 5 - Estimate Quotients       Resources:         Polyce:       Students will estimate quotients by using		Student Homework Page
<ul> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"         <ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build:         <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> <li>Practice:         <ul> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math                 <ul> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> <li>Assign On Level set: 2-18 (even), 19</li> <li>TE/SE pg. 178</li> <li>Assign On Level set: 2-18 (even), 19</li> <li>TE/SE pg. 179-180</li> <li>SE pg. 179-180</li></ul></li></ul></li></ul>		
strategies can be used to divide whole numbers?"Review Vocabulary: multiple, tensDeveloping Vocabulary • Problem of the Day• Review Vocabulary: multiple, tensBuild: • Investigate the Math: Explore, Model, ExtendTE pg. 175BPractice: • Math in My World • Guided Practice • Talk Math • Students turn and talk: "Explain how you could find the product of 29 and 103 mentally." • Independent PracticeTE/SE pg. 175-177Apply: • Problem Solving • Brain BuildersTE/SE pg. 179-180 • Ticket Out the Door TE pg. 180 • SE pg. 179-180Wrap Up: • Complete formative assessment • Assign homeworkTE/SE pg. 179-180 • SE pg. 179-180Learning Opportunities/Strategies: Lesson 5 - Estimate QuotientsResources: Follow corresponding Lesson Presentation Slides.		TE pg. 175A-175B
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> <li>Investigate the Math: Explore, Model, Extend</li> <li>Investigate the Math: Explore, Model, Extend</li> <li>TE pg. 175B</li> <li>TE/SE pg. 175-177</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math         <ul> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> <li>Assign On Level set: 2-18 (even), 19</li> </ul> </li> <li>Apply:         <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> <li>Wrap Up:             <ul> <li>Complete formative assessment</li> <li>Assign homework</li> <li>SE pg. 179-180</li> </ul> </li> </ul>		
<ul> <li>Problem of the Day</li> <li>Build:         <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> <li>Practice:         <ul> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math                 <ul></ul></li></ul></li></ul>		<ul> <li>Boviou Vessbulary: multiple_tape</li> </ul>
Build: • Investigate the Math: Explore, Model, ExtendTE pg. 175BPractice: • Math in My World • Guided Practice • Talk Math • Students turn and talk: "Explain how you could find the product of 29 and 103 mentally." • Independent PracticeTE/SE pg. 175-177Apply: • Problem Solving • Brain BuildersTE/SE pg. 178Wrap Up: • Assign homeworkTE/SE pg. 179-180 • Ticket Out the Door TE pg. 180 • SE pg. 179-180Learning Opportunities/Strategies: Lesson 5 - Estimate QuotientsResources: Follow corresponding Lesson Presentation Slides.		• Review vocabulary. multiple, tens
<ul> <li>Investigate the Math: Explore, Model, Extend</li> <li>Practice:         <ul> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math</li> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> </ul> </li> <li>Apply:         <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> <li>Wrap Up:             <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 5 - Estimate Quotients</li> <li>Objective: Students will estimate quotients by using</li> </ul> </li> </ul>		
Practice: 		ТЕ рд. 175В
<ul> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math         <ul> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> </ul> </li> <li>Apply:         <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> <li>Wrap Up:             <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 5 - Estimate Quotients</li> <li>Objective: Students will estimate quotients by using</li> </ul> </li> </ul>	<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
<ul> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math         <ul> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> </ul> </li> <li>Apply:         <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> <li>Wrap Up:             <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 5 - Estimate Quotients</li> <li>Objective: Students will estimate quotients by using</li> </ul> </li> </ul>	Practice:	TE/SE pg. 175-177
<ul> <li>Guided Practice         <ul> <li>Talk Math                 <ul></ul></li></ul></li></ul>		
<ul> <li>Students turn and talk: "Explain how you could find the product of 29 and 10<sup>3</sup> mentally."</li> <li>Independent Practice</li> <li>Arpply:         <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> <li>Wrap Up:             <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 5 - Estimate Quotients</li> <li>Objective: Students will estimate quotients by using</li> </ul> </li> </ul>		
could find the product of 29 and 103 mentally."All of 29 and 103 mentally."Assign On Level set: 2-18 (even), 19Apply: • Problem Solving • Brain BuildersTE/SE pg. 178Wrap Up: • Complete formative assessment • Assign homeworkTE/SE pg. 179-180 • Ticket Out the Door TE pg. 180 • SE pg. 179-180Learning Opportunities/Strategies: Lesson 5 - Estimate QuotientsResources: Follow corresponding Lesson Presentation Slides.Objective: Students will estimate quotients by usingResources: Follow corresponding Lesson Presentation Slides.		
mentally."Assign On Level set: 2-18 (even), 19Apply: • Problem Solving • Brain BuildersTE/SE pg. 178Wrap Up: • Complete formative assessment • Assign homeworkTE/SE pg. 179-180 • Ticket Out the Door TE pg. 180 • SE pg. 179-180Learning Opportunities/Strategies: Lesson 5 - Estimate QuotientsResources: Follow corresponding Lesson Presentation Slides.		
<ul> <li>Independent Practice</li> <li>Assign On Level set: 2-18 (even), 19</li> <li>Apply:         <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> <li>Wrap Up:             <ul> <li>Complete formative assessment</li> <li>Assign homework</li> <li>TE/SE pg. 179-180</li> <li>Ticket Out the Door TE pg. 180</li> <li>SE pg. 179-180</li> <li>SE pg. 179-180</li></ul></li></ul>		
Apply:       TE/SE pg. 178         • Problem Solving       Brain Builders         Wrap Up:       TE/SE pg. 179-180         • Complete formative assessment       • Ticket Out the Door TE pg. 180         • Assign homework       • SE pg. 179-180         Learning Opportunities/Strategies:       Resources:         Lesson 5 - Estimate Quotients       Follow corresponding Lesson Presentation Slides.         Objective: Students will estimate quotients by using       Here Support Corresponding Lesson Presentation Slides.		Assign On Level set: 2-18 (even), 19
<ul> <li>Problem Solving</li> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Leason 5 - Estimate Quotients</li> <li>Objective: Students will estimate quotients by using</li> </ul> </li> </ul>		
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 5 - Estimate Quotients</li> <li>Objective: Students will estimate quotients by using</li> </ul> </li> </ul>		TE/SE pg. 178
Wrap Up: • Complete formative assessment • Assign homeworkTE/SE pg. 179-180 • Ticket Out the Door TE pg. 180 • SE pg. 179-180Learning Opportunities/Strategies: Lesson 5 - Estimate QuotientsResources: Follow corresponding Lesson Presentation Slides.Objective: Students will estimate quotients by usingHere and the stimate quotients by using	5	
<ul> <li>Complete formative assessment</li> <li>Assign homework</li> <li>Ticket Out the Door TE pg. 180</li> <li>SE pg. 179-180</li> <li>Learning Opportunities/Strategies: Lesson 5 - Estimate Quotients</li> <li>Objective: Students will estimate quotients by using</li> </ul>		
<ul> <li>Assign homework</li> <li>SE pg. 179-180</li> <li>Learning Opportunities/Strategies: Lesson 5 - Estimate Quotients</li> <li>Objective: Students will estimate quotients by using</li> </ul>		
Learning Opportunities/Strategies:       Resources:         Lesson 5 - Estimate Quotients       Follow corresponding Lesson Presentation Slides.         Objective: Students will estimate quotients by using		
Lesson 5 - Estimate Quotients       Follow corresponding Lesson Presentation Slides.         Objective: Students will estimate quotients by using       Follow corresponding Lesson Presentation Slides.	Assign homework	• SE pg. 179-180
Lesson 5 - Estimate Quotients       Follow corresponding Lesson Presentation Slides.         Objective: Students will estimate quotients by using       Follow corresponding Lesson Presentation Slides.	Learning Opportunities/Strategies:	Resources:
rounding and compatible numbers.		
	rounding and compatible numbers.	
Review Homework: Review homework problems as Student Homework Page	Review Homework: Review homework problems as	Student Homework Page
needed.		

Launch:	ТЕ рд. 183А-183В
<ul> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>Review Vocabulary: compatible numbers</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 183В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain how you could use compatible numbers to estimate 272 ÷ 4."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 183-185</li> <li>Assign On Level set: 2-12 (even), 14-18</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 186
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 187-188</li> <li>Sequence TE pg. 188</li> <li>SE pg. 187-188</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 6 - Hands On - Division Models with Greater Numbers	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore division with greater numbers using models.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<b>TE pg. 189A</b> • n/a
Build: • Build It	TE/SE pg. 189 ● base-ten blocks
Practice: • Try It • Talk About It • Practice It	<ul> <li>TE/SE pg. 189-191</li> <li>base-ten blocks</li> <li>base-ten blocks</li> </ul>
Apply: • Apply It	TE/SE pg. 192 <ul> <li>base-ten blocks</li> </ul>

Write About It		
Wrap Up: Assign homework	TE/SE pg. 193-194	
<u>Learning Opportunities/Strategies:</u> Lesson 7 - Hands On - Division Models with Greater Numbers	Resources: Follow corresponding Lesson Presentation Slides.	
<b>Objective:</b> Students will divide using the Distributive Property and partial quotients.		
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page	
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> <li>Developing Vocabulary</li> </ul>	TE pg. 195A	
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	New Vocabulary: partial quotients	
Build: • Draw It	TE/SE pg. 195	
Practice: • Try It • Talk About It • Practice It	TE/SE pg. 196-198	
Apply: Apply It Write About It	TE/SE pg. 199	
<b>Wrap Up:</b> Assign homework	TE/SE pg. 199-200	
<u>Learning Opportunities/Strategies:</u> Lesson 8 - Divide Three- and Four-Digit Dividends	Resources: Follow corresponding Lesson Presentation Slides.	
<b>Objective:</b> Students will divide up to a four-digit number by a one-digit number.		
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page	
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> </ul>	TE pg. 201A-201B	
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	Review vocabulary: place value	
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 201В	

Math in My World	TE/SE pg. 201-203
<ul> <li>Math in My World</li> <li>Guided Practice</li> </ul>	
Talk Math	
$\circ$ Students turn and talk: "Does the quotient	
of 945 and 8 have two or three digits?	
<ul><li>Explain."</li><li>Independent Practice</li></ul>	<ul> <li>Assign On Level set: 2-12 (even), 15-18</li> </ul>
Apply:	TE/SE pg. 204
Problem Solving	
Brain Builders	
Wrap Up:	TE/SE pg. 205-206
Complete formative assessment	Ticket Out the Door TE pg. 206
Assign homework	• SE pg. 205-206
Learning Opportunities/Strategies:	Resources:
Lesson 9 - Place the First Digit	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will understand how to place the first	
digit in a quotient.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Leveele	
<ul> <li>Remind students of the Essential Question: "What</li> </ul>	ТЕ рд. 209А-209В
strategies can be used to divide whole numbers?"	
Developing Vocabulary	
Problem of the Day	Review vocabulary: unknown
Build:	ТЕ рд. 209В
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	12 pg. 2000
5	
Practice:	TE/SE pg. 210-211
<ul> <li>Math in My World</li> <li>Guided Practice</li> </ul>	
Talk Math	
<ul> <li>Students turn and talk: "You want to find</li> </ul>	
510 ÷ 6. Tell how you know where to	
place the quotient's first digit."	Appign On Lovel patr 4.14 (over) 15.10
Independent Practice	<ul> <li>Assign On Level set: 4-14 (even), 15-19</li> </ul>
Apply:	TE/SE pg. 212
Problem Solving	
Brain Builders	
Wrap Up:	TE/SE pg. 213-214
Complete formative assessment	• Quick Write TE pg. 214
Assign homework	• SE pg. 213-214

Learning Opportunities/Strategies: Lesson 10 - Quotients with Zeros	Resources: Follow corresponding Lesson Presentation Slides.
	Follow corresponding Lesson Presentation Sides.
<b>Objective:</b> Students will solve division problems that result in quotients that have zeros.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What</li> </ul>	TE pg. 215A-215B
<ul> <li>strategies can be used to divide whole numbers?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	Review vocabulary: quotient
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	TE pg. 215B
Practice:	TE/SE pg. 215-217
<ul><li>Math in My World</li><li>Guided Practice</li></ul>	
<ul> <li>Talk Math         <ul> <li>Students turn and talk: "Yolanda wants to</li> </ul> </li> </ul>	
find 936 ÷ 9. In which place-value	
position should she place a zero? Explain."	
Independent Practice	<ul> <li>Assign On Level set: 2-12 (even), 14-18</li> </ul>
Apply:	TE/SE pg. 218
<ul><li> Problem Solving</li><li> Brain Builders</li></ul>	
Wrap Up:	TE/SE pg. 219-220
<ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>Think-Pair-Share TE pg. 220</li> <li>SE pg. 219-220</li> </ul>
Learning Opportunities/Strategies: Lesson 11 - Hands On - Use Models to Interpret the Remainder	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore how to interpret the remainder in a division problem.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	TE pg. 221A
<ul> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> </ul>	
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	● n/a
Build:	TE/SE pg. 221

Build It	<ul> <li>connecting cubes, paper plates</li> </ul>
	• connecting cubes, paper plates
Practice:	TE/SE pg. 222-223
<ul> <li>Try It</li> <li>Talk About It</li> </ul>	
Practice It	
Apply:	TE/SE pg. 224
<ul> <li>Apply It</li> <li>Write About It</li> </ul>	
• White About h	
Wrap Up:	TE/SE pg. 225-226
Assign homework	
Learning Opportunities/Strategies:	Resources:
Lesson 12 - Interpret the Remainder	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will interpret the remainder in a division problem.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	TE pg. 227A-227B
Remind students of the Essential Question: "What	12 pg. 2217 2218
strategies can be used to divide whole numbers?"	
Developing Vocabulary	Review vocabulary: remainder
Problem of the Day	
Build:	ТЕ рд. 227В
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Practice:	TE/SE pg. 227-229
Math in My World	
Guided Practice	
Talk Math     Studente turn and talk: "Discuss the	
<ul> <li>Students turn and talk: "Discuss the different ways you can interpret the</li> </ul>	
remainder."	
Independent Practice	<ul> <li>Assign On Level set: 2-8 (even), 9, 10</li> </ul>
Apply:	TE/SE pg. 230
Problem Solving	· -· · - F3. 200
Brain Builders	
Wrap Up:	TE/SE pg. 231-242
Complete formative assessment	<ul> <li>Ticket Out the Door TE pg. 242</li> </ul>
Assign homework	• SE pg. 241-242
	Processor
Learning Opportunities/Strategies: Lesson 13 - Problem Solving Investigation - Strategy:	Resources: Follow corresponding Lesson Presentation Slides.
Determine Extra or Missing Information	ronow corresponding Lesson Freschlation Silles.

Objective: Students will identify			
missing information needed to solve a problem.			
<b>Review Homework:</b> Review homework problems as needed.		Student Homework Page	
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> <li>Problem of the Day</li> </ul>		TE pg. 233A-233B	
Build: • Prepare • Learn the Strategy		<ul> <li>TE pg. 233B</li> <li>TE/SE pg. 233</li> </ul>	
<ul><li>Practice:</li><li>Practice the Strategy</li></ul>		TE/SE pg. 234	
<ul><li>Apply:</li><li>Apply the Strategy</li><li>Review the Strategy</li></ul>		<ul><li>TE/SE pg. 235-236</li><li>Assign On Level set:</li></ul>	2-8 (even)
<ul><li>Wrap Up:</li><li>Complete formative ass</li><li>Assign homework</li></ul>	essment	<ul> <li>TE pg. 237-238</li> <li>Ticket Out the Door TE pg. 238</li> <li>SE pg. 237-238</li> </ul>	
Learning Opportunities/Strategies: Chapter 3 Review and Reflect		Resources:	
<b>Objective:</b> Assess students' une vocabulary and key concepts in			
<b>Review Homework:</b> Review homework problems as needed.		Student Homework Page	
<ul> <li>Essential Question:</li> <li>Remind students of the Essential Question: "What strategies can be used to divide whole numbers?"</li> </ul>			
Review: • Vocabulary Check • Concept Check • Problem Solving • Brain Builders		TE/SE pg. 239-241	
Reflect:	eflect: TE/SE pg. 242		
Assign homework:		n/a	
<b>Differentiation</b> *Please note: Teachers who have students with 504 plans that require curricular accommodations to refer to Struggling and/or Special Needs Section for differentiation.		ricular accommodations are	
High-Achieving Students	On Grade Level Students	Struggling Students	Special Needs/ELL
Small Group	Small Group	Small Group	Small Group

<ul> <li>Utilize gradual release model</li> <li>Modify problem set to "Beyond Level"</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Technology</li> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	<ul> <li>Utilize gradual release model</li> <li>Modify problem set to "On Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Technology</li> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	<ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> <li>Technology</li> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill e Tools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	<ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> <li>Technology</li> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize the McGraw Hill english Language Learner Guide to provide foundational support</li> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> </ul>

	<ul> <li>The multilingual</li> </ul>
	eGlossary can
	support vocabulary
	Learning Station
	<ul> <li>My Learning</li> </ul>
	Station student-led
	activity

<u>Chapter 4</u> : Divide by a Two-Digit Divisor	
Stage 1: I	Desired Results
Standards & Indicators:	
using strategies based on place value, the propert	umbers with up to four-digit dividends and two-digit divisors, ies of operations, and/or the relationship between e calculation by using equations, rectangular arrays, and/or
<ul> <li>NJSLS for Mathematical Practice</li> <li>1 Make sense of problems and persevere in solv</li> <li>2 Reason abstractly and quantitatively.</li> <li>3 Construct viable arguments and critique the re</li> <li>4 Model with mathematics.</li> <li>5 Use appropriate tools strategically.</li> <li>6 Attend to precision.</li> <li>7 Look for and make use of structure.</li> <li>8 Look for and express regularity in repeated reasonal structure.</li> </ul>	asoning of others.
Central Idea / Enduring Understanding:	Essential/Guiding Question:
<ul> <li>Students will</li> <li>divide by a two-digit divisor.</li> <li>adjust quotients.</li> <li>use models for division.</li> <li>estimate quotients.</li> </ul>	<ul> <li>What strategies can I use to divide by a two-digit divisor?</li> </ul>
<ul> <li>Content:</li> <li>Estimate Quotients</li> <li>Hands On: Divide Using Base-Ten Blocks</li> <li>Divide by a Two-Digit Divisor</li> <li>Adjust Quotients</li> <li>Divide Greater Numbers</li> <li>Problem-Solving Investigation: Solve a Simpler Problem</li> </ul>	<ul> <li>Skills (Objectives):</li> <li>Estimate quotients with two-digit divisors.</li> <li>Explore dividing by two-digit divisors using models.</li> <li>Divide up to a three-digit number by a two-digit number.</li> <li>Adjust the quotient when the estimated digit is too high or too low.</li> <li>Divide greater numbers by multi-digit divisors.</li> <li>Solve problems by solving a simpler problem.</li> </ul>

### NJSLS for Literacy

• **L.VL.5.2.** Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.

- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- SL.ES.5.3. Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- SL.AS.5.6. Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

### **NJSLS for Social Studies**

- **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).
- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

### NJSLS for Science

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

#### NJSLS for Career Readiness, Life Literacies, and Key Skills

- **9.4.5.Cl.3**: Participate in a brainstorming session with individuals with diverse perspectives to expand one's thinking about a topic of curiosity.
- 9.4.5.CT.1: Identify and gather relevant data that will aid in the problem-solving process.
- 9.4.5.CT.3: Describe how digital tools and technology may be used to solve problems.
- **9.4.5.CT.4**: Apply critical thinking and problem-solving strategies to different types of problems such as personal, academic, community and global.
- **9.4.5.IML.1**: Evaluate digital sources for accuracy, perspective, credibility and relevance (e.g., Social Studies Practice Gathering and Evaluating Sources).
- 9.4.5.IML.2: Create a visual representation to organize information about a problem or issue.
- 9.4.5.IML.3: Represent the same data in multiple visual formats in order to tell a story about the data.
- 9.4.5.IML.5: Distinguish how media are used by individuals, groups, and organizations for varying purposes.
- **9.4.5.IML.6**: Use appropriate sources of information from diverse sources, contexts, disciplines, and cultures to answer questions.
- **9.4.5.IML.7**: Evaluate the degree to which information meets a need including social emotional learning, academic, and social.
- 9.4.5.TL.2: Sort and filter data in a spreadsheet to analyze findings.
- **9.4.5.TL.3**: Format a document using a word processing application to enhance text, change page formatting, and include appropriate images, graphics, or symbols.
- 9.4.5.TL.4: Compare and contrast artifacts produced individually to those developed collaboratively.
- **9.4.5.TL.5**: Collaborate digitally to produce an artifact.

Stage 2: Assessment Evidence		
Diagnostic Assessment:         • Am I Ready?         Formative Assessments:         • Vocabulary         • Ticket Out the Door         • Response Boards         • Think-Pair-Share         • Quick Write         • Turn to Your Partner         • Talk Math         • Independent Practice         • Check My Progress	Summative Assessment:         • My Review         • Reflect         • Chapter 4 - Assessment         • Chapter 4 - Performance Task         Benchmark Assessment:         • n/a	
	earning Plan	
Learning Opportunities/Strategies: Chapter Introduction Objective: Use diagnostic resources to determine which level of instruction is needed to help students get ready for the chapter.	Resources:	
<ul> <li>Chapter Introduction:</li> <li>Introduce the chapter by discussing the theme, "Around My School".</li> <li>View online video to spark a discussion about how math is used in schools.</li> <li>Introduce the Essential Question: "What strategies can I use to divide by a two-digit divisor?"</li> </ul>	<ul> <li>TE pg. 243</li> <li>TE/SE pg. 243</li> <li>Online Video</li> <li>TE/SE pg. 243</li> </ul>	
<ul> <li>Am I Ready?</li> <li>Complete the "Am I Ready?" assessment to determine if students have the foundational skills they need in order to successfully learn the new skills and concepts presented in this chapter.</li> </ul>	TE/SE pg. 245	
<ul> <li>My Math Words</li> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li><b>TE/SE pg. 246</b></li> <li>Review Vocabulary: dividend, divisor, quotient</li> </ul>	
<ul> <li>My Vocabulary Cards</li> <li>Introduce vocabulary words and complete "My Vocabulary Cards" activity.</li> </ul>	<ul> <li>TE/SE pg. 247-248</li> <li>New Vocabulary: There are no new vocabulary words in this chapter.</li> </ul>	
<ul> <li>My Foldable</li> <li>This foldable will provide practice using the steps in order to solve division problems with two-digit numbers. Complete the "My Foldable" activities.</li> </ul>	TE/SE pg. 249-250	

<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	Online <ul> <li>Must print letter</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 1 - Estimate Quotients	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will estimate quotients with two-digit divisors.	
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can I use to divide by a two-digit divisor?"</li> </ul> </li> </ul>	ТЕ рд. 251А-В
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	Review Vocabulary: estimate, round
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 251В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Is it possible to have more than one estimate for a division problem? Explain. Give an example."</li> </ul> </li> </ul>	TE/SE pg. 251-253
Independent Practice	Assign On Level set: 2-12 (even), 15-18
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 254
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 255-256</li> <li>Ticket Out the Door TE pg. 256</li> <li>SE pg. 255-256</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 2 - Hands On - Divide Using Base-Ten Blocks	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore dividing by two-digit divisors using models.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can I use to divide by a two-digit divisor?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 257А

Duild	
Build:	TE/SE pg. 257
Build It	<ul> <li>base-ten blocks</li> </ul>
Describes	
Practice:	TE/SE pg. 258-259
Talk About It	base-ten blocks
Practice It	<ul> <li>base-ten blocks</li> </ul>
Apply:	TE/SE pg. 260
Apply It	
Write About It	
Wrap Up:	TE/SE pg. 261-262
Assign homework	
Learning Opportunities/Strategies:	Resources:
Lesson 3 - Divide by a Two-Digit Divisor	Follow corresponding Lesson Presentation Slides.
, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·
<b>Objective:</b> Students will divide up to a three-digit number	
by a two-digit divisor.	
Review Homework: Review homework problems as	Student Homework Page
needed.	Stadent Homework Fage
needed.	
Lounah	TE ng 2624 P
Launch:	ТЕ рд. 263А-В
• Remind students of the Essential Question: "What	
strategies can I use to divide by a two-digit	
divisor?"	
<ul> <li>Developing Vocabulary</li> </ul>	<ul> <li>Review Vocabulary: remainder</li> </ul>
<ul> <li>Problem of the Day</li> </ul>	
Build:	ТЕ рд. 263В
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Practice:	TE/SE pg. 263-265
Math in My World	
Guided Practice	
Talk Math	
<ul> <li>Students turn and talk: "Explain how</li> </ul>	
estimation is used to help you place the	
first digit in the quotient."	
Independent Practice	<ul> <li>Assign On Level set: 2-12 (even), 14-19</li> </ul>
	5
Apply:	TE/SE pg. 266
Problem Solving	
Brain Builders	
Wrap Up:	TE/SE pg. 267-268
<ul> <li>Complete formative assessment</li> </ul>	<ul> <li>Ticket Out the Door TE pg. 268</li> </ul>
Assign homework	• SE pg. 267-268
Learning Opportunities/Strategies	Pocources
Learning Opportunities/Strategies:	Resources:
Lesson 4 - Adjust Quotients	Follow corresponding Lesson Presentation Slides.

<b>Objective:</b> Students will adjust the quotient when the	
estimated digit is too high or too low.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can I use to divide by a two-digit divisor?"</li> </ul> </li> </ul>	ТЕ рд. 271А-В
<ul><li>divisor?"</li><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	<ul> <li>Review Vocabulary: estimate, quotient</li> </ul>
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 271В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain how you know when a digit you try in the quotient is too small."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 271-273</li> <li>Assign On Level set: 2-12 (even), 14-18</li> </ul>
Apply: • Problem Solving	TE/SE pg. 274
Brain Builders	
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 275-276</li> <li>Quick Write TE pg. 276</li> <li>SE pg. 275-276</li> </ul>
Learning Opportunities/Strategies: Lesson 5 - Divide Greater Numbers	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will divide greater numbers by multi-digit divisors.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Remind students of the Essential Question: "What strategies can I use to divide by a two-digit divisor?"</li> </ul>	ТЕ рд. 277А-В
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	Review Vocabulary: dividend
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 277В
Practice:	TE/SE pg. 277-279

<ul> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math         <ul> <li>Students turn and talk: "Explain how estimation can be used before, during, and after a division problem."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 2-12 (even), 14-18</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 280
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 281-282</li> <li>Ticket Out the Door TE pg. 282</li> <li>SE pg. 281-282</li> </ul>
Learning Opportunities/Strategies: Lesson 6 - Problem-Solving Investigation - Strategy: Solve a Simpler Problem	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will solve problems by solving a simpler problem.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can I use to divide by a two-digit divisor?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 283А-В
Build: • Prepare • Learn the Strategy	<ul> <li>TE pg. 283B</li> <li>TE/SE pg. 283</li> </ul>
<ul><li>Practice:</li><li>Practice the Strategy</li></ul>	TE/SE pg. 284
<ul><li>Apply:</li><li>Apply the Strategy</li><li>Review the Strategy</li></ul>	<ul> <li>TE/SE pg. 285-286</li> <li>Assign On Level set: 2-10 (even)</li> </ul>
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 287-288</li> <li>Ticket Out the Door TE pg. 288</li> <li>SE pg. 287-288</li> </ul>
Learning Opportunities/Strategies: Chapter 4 - Review and Reflect	Resources:
<b>Objective:</b> Assess students' understanding of the vocabulary and key concepts in this chapter.	

Review Homework: Review hom	nework problems as	Student Homework Page	
needed.			
<ul> <li>Remind students of the E strategies can I use to div divisor?"</li> </ul>			
Review: • Vocabulary Check • Concept Check • Problem Solving • Brain Builders		TE/SE pg. 291-293	
Reflect:		TE/SE pg. 294	
Assign homework:		Fluency Practice TE/SE pg.	289-290
Differentiation *Please note: Tea to refer to Struggling and/or Speci			ricular accommodations are
High-Achieving Students	On Grade Level Students	Struggling Students	Special Needs/ELL
<ul> <li>Utilize gradual release model</li> <li>Modify problem set to "Beyond Level"</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Technology</li> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex</li> </ul>	<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "On Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to</li> </ul> </li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized</li> </ul> </li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized</li> </ul> </li> </ul>

provide	demonstrate a	Utilize McGraw Hill	Utilize McGraw Hill
provide	model/sample	Ounze McGraw Hill     eTools for online	Ounze McGraw Hin     eTools for online
	Utilize McGraw	manipulative	manipulative
	Hill online lesson	support	support
	animations to	Utilize McGraw Hill	<ul> <li>Utilize McGraw Hill</li> </ul>
	demonstrate a	Personal Tutor to	Personal Tutor to
	model/sample	demonstrate a	demonstrate a
	Utilize the	model/sample	model/sample
	McGraw Hill	<ul> <li>Utilize McGraw Hill</li> </ul>	<ul> <li>Utilize McGraw Hill</li> </ul>
	English	online lesson	online lesson
	Language	animations to	animations to
	Learner Guide to	demonstrate a	demonstrate a
	provide	model/sample	model/sample
		Utilize the McGraw	Utilize the McGraw
		Hill English	Hill English
		Language Learner	Language Learner
		Guide to provide	Guide to provide foundational
			support
			<ul> <li>Specific use of</li> </ul>
			modalities -
			kinesthetic, visual,
			auditory, tactile
			The multilingual
			eGlossary can
			support vocabulary
			Learning Station
			My Learning
			Station student-led
			activity

### Chapter 5: Add and Subtract Decimals

### Stage 1: Desired Results

### Standards & Indicators:

### **NJSLS for Mathematics**

- **5.NBT.4** Use place value understanding to round decimals to any place.
- **5.NBT.7** Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

### **NJSLS for Mathematical Practice**

- 1. Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.
- 4. Model with mathematics.
- 5. Use appropriate tools strategically.
- **6.** Attend to precision.
- 7. Look for and make use of structure.
- **8.** Look for and express regularity in repeated reasoning.

<ul> <li>Round Decimals</li> <li>Estimate Sums and Differences</li> <li>Problem-Solving Investigation: Estimate or Exact Answer</li> <li>Hands On: Add Decimals Using Base-Ten Blocks</li> <li>Hands On: Add Decimals Using Models</li> <li>Add Decimals</li> <li>Add Decimals</li> </ul>	(Objectives): Round decimals. Estimate sums and differences by rounding.
<ul> <li>Hands On: Subtract Decimals Using Base-Ten Blocks</li> <li>Hands On: Subtract Decimals Using Models</li> <li>Subtract Decimals</li> </ul>	Solve problems by using an estimate or an exact answer. Explore adding decimals using base-ten blocks. Explore adding decimals using models. Add decimals. Use the Associative, Commutative, and Identity Properties to add whole numbers and decimals mentally. Explore subtracting decimals using base-ten blocks. Explore subtracting decimals using models. Subtract decimals.

## NJSLS for Literacy

- **L.VL.5.2.** Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- SL.ES.5.3. Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

### **NJSLS for Social Studies**

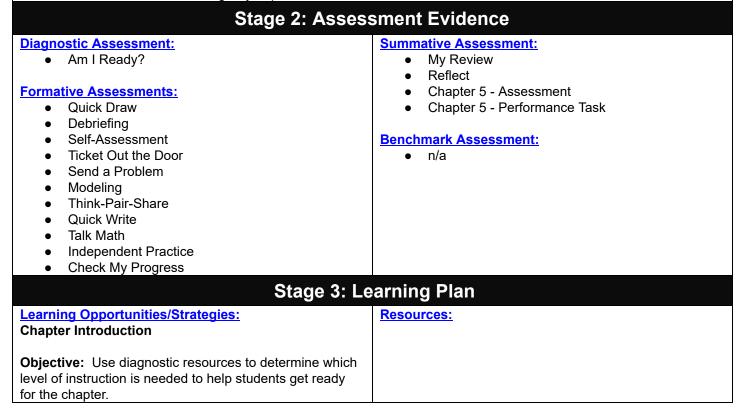
- **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).
- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

### **NJSLS for Science**

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

### NJSLS for Career Readiness, Life Literacies, and Key Skills

- **9.1.5.CR.1**: Compare various ways to give back and relate them to your strengths, interests, and other personal factors.
- 9.1.5.EG.1: Explain and give examples of what is meant by the term "tax."
- 9.1.5.FP.2: Identify the elements of being a good steward of money.
- **9.1.5.FP.4**: Explain the role of spending money and how it affects well-being and happiness (e.g., "happy money," experiences over things, donating to causes, anticipation, etc.)
- 9.1.5.PB.2: Describe choices consumers have with money (e.g., save, spend, donate).
- 9.2.5.CAP.2: Identify how you might like to earn an income.
- 9.2.5.CAP.1: Evaluate personal likes and dislikes and identify careers that might be suited to personal likes
- **9.4.5.Cl.3**: Participate in a brainstorming session with individuals with diverse perspectives to expand one's thinking about a topic of curiosity.
- 9.4.5.CT.1: Identify and gather relevant data that will aid in the problem-solving process.
- **9.4.5.CT.4**: Apply critical thinking and problem-solving strategies to different types of problems such as personal, academic, community and global.
- **9.4.5.IML.1**: Evaluate digital sources for accuracy, perspective, credibility and relevance (e.g., Social Studies Practice Gathering and Evaluating Sources).
- 9.4.5.IML.2: Create a visual representation to organize information about a problem or issue.
- 9.4.5.IML.3: Represent the same data in multiple visual formats in order to tell a story about the data.
- **9.4.5.IML.7**: Evaluate the degree to which information meets a need including social emotional learning, academic, and social.
- **9.4.5.TL.3**: Format a document using a word processing application to enhance text, change page formatting, and include appropriate images, graphics, or symbols.
- 9.4.5.TL.4: Compare and contrast artifacts produced individually to those developed collaboratively.
- 9.4.5.TL.5: Collaborate digitally to produce an artifact.



<ul> <li>Chapter Introduction:</li> <li>Introduce the chapter by discussing the theme, "Let's Explore Technology!"</li> <li>View online video to spark a discussion about how math is used in technology.</li> <li>Introduce the Essential Question: "How can I use place value and properties to add and subtract decimals?"</li> </ul>	<ul> <li>TE pg. 295</li> <li>TE/SE pg. 295</li> <li>Online Video</li> <li>TE/SE pg. 295</li> </ul>
<ul> <li>Am I Ready?</li> <li>Complete the "Am I Ready?" assessment to determine if students have the foundational skills they need in order to successfully learn the new skills and concepts presented in this chapter.</li> </ul>	TE/SE pg. 297
<ul> <li>My Math Words</li> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li>TE/SE pg. 298</li> <li>Review Vocabulary: greater than (&gt;), less than (&lt;), equal to (=)</li> </ul>
<ul> <li>My Vocabulary Cards</li> <li>Introduce vocabulary words and complete "My Vocabulary Cards" activity.</li> </ul>	<ul> <li>TE/SE pg. 299-300</li> <li>New Vocabulary: Associative Property of Addition, Commutative Property of Addition, Identity Property of Addition, inverse operations</li> </ul>
<ul> <li>My Foldable</li> <li>This foldable will provide practice adding decimals to the hundredths place value. Complete the "My Foldable" activities.</li> </ul>	TE/SE pg. 301-302
<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	<ul><li>Online</li><li>Must print letter</li></ul>
<u>Learning Opportunities/Strategies:</u> Lesson 1 - Round Decimals	Resources: Follow corresponding Lesson Presentation Slides.
Objective: Students will round decimals.	
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use place value and properties to add and</li> </ul>	ТЕ рд. 303А-В
<ul><li>subtract decimals?"</li><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	Review Vocabulary: decimal, round
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 303В
Practice:	TE/SE pg. 303-305
Math in My World	
<ul><li>Guided Practice</li><li>Talk Math</li></ul>	<ul><li> place-value chart</li><li> number line</li></ul>

<ul> <li>Students turn and talk: "Explain how to round 74.685 to the nearest hundredth."</li> <li>Independent Practice</li> </ul>	• Assign On Level set: 2-12 (even), 14-18
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 306
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 307-308</li> <li>Debriefing TE pg. 308</li> <li>SE pg. 307-308</li> </ul>
Learning Opportunities/Strategies: Lesson 2 - Estimate Sums and Differences	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will estimate sums and differences by rounding.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use place value and properties to add and</li> </ul>	ТЕ рд. 309А-В
<ul><li>subtract decimals?"</li><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	Review Vocabulary: sum, difference, round
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 309В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Describe a real-world example of when it might be appropriate to estimate rather than get the exact answer."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 309-311</li> <li>Assign On Level set: 4-14 (even), 15-19</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 312
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 313-314</li> <li>Ticket Out the Door TE pg. 314</li> <li>SE pg. 313-314</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 3 - Problem-Solving Investigation - Strategy: Estimate or Exact Answer	<b><u>Resources:</u></b> Follow corresponding Lesson Presentation Slides.

<b>Objective:</b> Students will solve problems by using an	
estimate or an exact answer.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use place value and properties to add and subtract decimals?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 315А-В
Build: • Prepare • Learn the Strategy	<ul> <li>TE pg. 315B</li> <li>TE/SE pg. 315</li> </ul>
Practice:         Practice the Strategy	TE/SE pg. 316
<ul> <li>Apply:</li> <li>Apply the Strategy</li> <li>Review the Strategy</li> </ul>	<ul> <li>TE/SE pg. 317-318</li> <li>Assign On Level set: 2-10 (even)</li> </ul>
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 319-320</li> <li>Ticket Out the Door TE pg. 320</li> <li>SE pg. 319-320</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 4 - Hands On - Add Decimals Using Base-Ten Blocks	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore adding decimals using base-ten blocks.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use place value and properties to add and subtract decimals?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 323А
Build: • Build It	<ul><li>TE/SE pg. 323</li><li>base-ten blocks</li></ul>
Practice: • Talk About It • Practice It	<ul> <li>TE/SE pg. 324-325</li> <li>base-ten blocks</li> <li>base-ten blocks</li> </ul>
Apply: • Apply It • Write About It	TE/SE pg. 326

Wrap Up: Assign homework	TE/SE pg. 327-328
<u>Learning Opportunities/Strategies:</u> Lesson 5 - Hands On - Add Decimals Using Models	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore adding decimals using models.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use place value and properties to add and subtract decimals?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 329А
Build: • Build It	<b>TE/SE pg. 329</b> • 10-by-10 grids
Practice: • Talk About It • Practice It	<b>TE/SE pg. 330-331</b> <ul> <li>10-by-10 grids</li> <li>10-by-10 grids</li> </ul>
Apply: • Apply It • Write About It	<ul> <li>TE/SE pg. 332</li> <li>10-by-10 grids</li> </ul>
Wrap Up: Assign homework	TE/SE pg. 333-334
Learning Opportunities/Strategies: Lesson 6 - Add Decimals	Resources: Follow corresponding Lesson Presentation Slides.
Objective: Students will add decimals.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Remind students of the Essential Question: "How can I use place value and properties to add and subtract decimals?"</li> </ul>	ТЕ рд. 335А-В
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	Review Vocabulary: place value
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 335В
<ul><li>Practice:</li><li>Math in My World</li></ul>	TE/SE pg. 335-337

<ul> <li>Guided Practice</li> <li>Talk Math</li> </ul>	
<ul> <li>Students turn and talk: "Explain how</li> </ul>	
annexing zeros might be helpful when	
adding decimals."	
Independent Practice	<ul> <li>Assign On Level set: 4-14 (even), 15-20</li> </ul>
Apply:	TE/SE pg. 338
Problem Solving	12,02 pg. 000
Brain Builders	
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> </ul>	<ul> <li>TE/SE pg. 339-340</li> <li>Ticket Out the Door TE pg. 340</li> </ul>
<ul> <li>Assign homework</li> </ul>	<ul> <li>SE pg. 339-340</li> </ul>
	• OE pg. 000-040
Learning Opportunities/Strategies:	Resources:
Lesson 7 - Addition Properties	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will use the Associative,	
Commutative, and Identity Properties to add whole	
numbers and decimals mentally.	
Periou Homework: Deview homework problems of	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	ТЕ рд. 341А-В
<ul> <li>Remind students of the Essential Question: "How</li> </ul>	
can I use place value and properties to add and	
<ul><li>subtract decimals?"</li><li>Developing Vocabulary</li></ul>	New Vocabulary: Associative Property of Addition,
	Commutative Property of Addition, Identity
	Property of Addition
<ul> <li>Problem of the Day</li> </ul>	
Build:	TE ng 341B
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 341В
Practice:	TE/SE pg. 341-343
Math in My World	
Guided Practice     Talk Math	
<ul> <li>Talk Math         <ul> <li>Students turn and talk: "Use properties to</li> </ul> </li> </ul>	
mentally determine whether 3.1 + 0.8 +	
0.9 is less than, greater than, or equal to	
5. Explain"	
Independent Practice	<ul> <li>Assign On Level set: 2, 4, 5-10</li> </ul>
Apply:	TE/SE pg. 344
Problem Solving	
Brain Builders	
Wran Lin:	TE/SE ng 345 346
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> </ul>	<ul> <li>TE/SE pg. 345-346</li> <li>Self Assessment TE pg. 346</li> </ul>

Assign homework	• SE pg. 345-346
<u>Learning Opportunities/Strategies:</u> Lesson 8 - Hands On - Subtract Decimals Using Base-Ten Blocks	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore subtracting decimals using base-ten blocks.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use place value and properties to add and subtract decimals?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 349А
Build: • Build It	TE/SE pg. 349 • base-ten blocks
<ul> <li>Practice:</li> <li>Talk About It</li> <li>Practice It</li> </ul>	<ul> <li>TE/SE pg. 350-351</li> <li>base-ten blocks</li> <li>base-ten blocks</li> </ul>
Apply: Apply It Write About It	<ul> <li>TE/SE pg. 352</li> <li>base-ten blocks</li> <li>base-ten blocks</li> </ul>
Wrap Up: • Assign homework	TE/SE pg. 353-354
<u>Learning Opportunities/Strategies:</u> Lesson 9 - Hands On - Subtract Decimals Using Models	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore subtracting decimals using models.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use place value and properties to add and subtract decimals?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 355А
Build: • Build It	TE/SE pg. 355 ● 10-by-10 grids
Practice: Talk About It	TE/SE pg. 356-357 ● 10-by-10 grids

Practice It	• 10-by-10 grids
Apply:	TE/SE pg. 358
Apply It	• 10-by-10 grids
Write About It	
Wrap Up:	TE/SE pg. 359-360
<ul> <li>Assign homework</li> </ul>	12/32 pg. 333-300
Learning Opportunities/Strategies:	Resources:
Lesson 10 - Subtract Decimals	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will subtract decimals.	
Review Homework: Review homework problems as	Student Homework Page
needed.	otacin nomenon ruge
Launch:	ТЕ рд. 361А-В
<ul> <li>Remind students of the Essential Question: "How</li> </ul>	
can I use place value and properties to add and	
<ul><li>subtract decimals?"</li><li>Developing Vocabulary</li></ul>	New Vocabulary: inverse operation
<ul> <li>Developing vocabulary</li> <li>Problem of the Day</li> </ul>	• New vocabulary. Inverse operation
Build:	TE pg. 361B
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Prosting	TE/RE ng 204 202
Math in My World	TE/SE pg. 361-363
Guided Practice	
Talk Math	
<ul> <li>Students turn and talk: "Explain how</li> </ul>	
estimation can be used before, during,	
and after a division problem."	Apping On Lovel acts 4.14 (over) 45.10
Independent Practice	<ul> <li>Assign On Level set: 4-14 (even), 15-19</li> </ul>
Apply:	TE/SE pg. 364
Problem Solving	
Brain Builders	
M/ren IIni	TE/RE ng 205 200
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> </ul>	<ul> <li>TE/SE pg. 365-366</li> <li>Quick Write TE pg. 366</li> </ul>
<ul> <li>Assign homework</li> </ul>	<ul> <li>SE pg. 365-366</li> </ul>
Learning Opportunities/Strategies:	Resources:
Chapter 5 - Review and Reflect	
Objective: Assess students' understanding of the	
vocabulary and key concepts in this chapter.	
Review Homework: Review homework problems as	Student Homework Page
needed.	

<ul> <li>Essential Question:         <ul> <li>Remind students of the Essential Question: "How can I use place value and properties to add and subtract decimals?"</li> </ul> </li> </ul>	TE/0E mm 207 200
Review: • Vocabulary Check • Concept Check • Problem Solving • Brain Builders	TE/SE pg. 367-369
Reflect:	TE/SE pg. 370
Assign homework:	n/a

<u>Differentiation</u>\*Please note: Teachers who have students with 504 plans that require curricular accommodations are to refer to Struggling and/or Special Needs Section for differentiation.

animations to	manipulative	manipulative
demonstrate a model/sample • Utilize the McGraw Hill English Language Learner Guide to provide	<ul> <li>support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	<ul> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide foundational support</li> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>The multilingual eGlossary can support vocabulary</li> <li>Learning Station student-led activity</li> </ul>

### Chapter 6: Multiply and Divide Decimals

### **Stage 1: Desired Results**

### Standards & Indicators:

### **NJSLS for Mathematics**

- **5.NBT.2** Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.
- **5.NBT.5** With accuracy and efficiency, multiply multi-digit whole numbers using the standard algorithm.
- **5.NBT.6** Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
- **5.NBT.7** Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

### **NJSLS Standards for Mathematical Practice**

- 1. Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.
- **4.** Model with mathematics.

<ul> <li>5 Use appropriate tools strategically.</li> <li>6 Attend to precision.</li> <li>7 Look for and make use of structure.</li> <li>8 Look for and express regularity in repeated reasoning.</li> </ul>		
Central Idea / Enduring Understanding:	Essential/Guiding Question:	
<ul> <li>Students will</li> <li>use models to multiply decimals.</li> <li>multiply decimals.</li> <li>use properties of multiplication to multiply whole numbers and decimals.</li> <li>estimate quotients involving decimals</li> <li>divide a decimal by a whole number.</li> </ul>	<ul> <li>How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?</li> </ul>	
<ul> <li>Content:</li> <li>Estimate Products of Whole Numbers and Decimals</li> <li>Hands On: Use Models to Multiply</li> <li>Multiply Decimals by Whole Numbers</li> <li>Hands On: Use Models to Multiply Decimals</li> <li>Multiply Decimals</li> <li>Multiply Decimals by Powers of Ten</li> <li>Problem-Solving Investigation: Look for a Pattern</li> <li>Multiplication Properties</li> <li>Estimate Quotients</li> <li>Hands On: Divide Decimals</li> <li>Divide Decimals by Whole Numbers</li> <li>Hands On: Use Models to Divide Decimals</li> <li>Divide Decimals by Whole Numbers</li> <li>Hands On: Use Models to Divide Decimals</li> <li>Divide Decimals</li> <li>Divide Decimals</li> <li>Divide Decimals</li> </ul>	<ul> <li>Skills (Objectives):</li> <li>Estimate products of whole numbers.</li> <li>Explore multiplying decimals by whole numbers.</li> <li>Multiply decimals by whole numbers.</li> <li>Explore using decimal models to multiply decimals.</li> <li>Multiply decimals by decimals.</li> <li>Multiply decimals by powers of ten.</li> <li>Solve problems by looking for a pattern.</li> <li>Use the Associative, Commutative, and Identity Properties to multiply mentally.</li> <li>Estimate quotients of decimals and whole numbers.</li> <li>Explore dividing decimals by whole numbers.</li> <li>Divide decimals by whole numbers.</li> <li>Explore using models to divide decimals by decimals.</li> <li>Divide decimals by decimals.</li> <li>Divide decimals by decimals.</li> <li>Divide decimals by decimals.</li> <li>Divide decimals by decimals.</li> </ul>	
Interdisciplinary Connection(s):		

### NJSLS for Literacy

- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- **SL.ES.5.3.** Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

### **NJSLS for Social Studies**

- **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).
- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

### **NJSLS for Science**

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

### NJSLS for Career Readiness, Life Literacies, and Key Skills

- 9.1.5.FP.2: Identify the elements of being a good steward of money.
- **9.1.5.PB.1**: Develop a personal budget and explain how it reflects spending, saving, and charitable contributions.
- 9.1.5.PB.2: Describe choices consumers have with money (e.g., save, spend, donate).
- 9.2.5.CAP.2: Identify how you might like to earn an income.
- 9.4.5.CT.1: Identify and gather relevant data that will aid in the problem-solving process.
- **9.4.5.CT.4**: Apply critical thinking and problem-solving strategies to different types of problems such as personal, academic, community and global.
- 9.4.5.IML.2: Create a visual representation to organize information about a problem or issue
- **9.4.5.TL.3**: Format a document using a word processing application to enhance text, change page formatting, and include appropriate images, graphics, or symbols.

### Stage 2: Assessment Evidence

Summative Assessment:

My Review Reflect

**Benchmark Assessment:** 

•

Chapter 6 - Assessment

Chapter 6 - Performance Task

Benchmark Test 2 (covers chapters 4-6)

### Diagnostic Assessment:

• Am I Ready?

### Formative Assessments:

- Vocabulary
- Ticket Out the Door
- Analogy Prompt
- Debriefing
- Think-Pair-Share
- Sequence
- Summarize
- Self-Assessment
- Quick Write
- Written Reflections
- Response Boards
- Send a Problem
- Talk Math
- Independent Practice
- Check My Progress

### Stage 3: Learning Plan

Learning Opportunities/Strategies: Chapter Introduction	Resources:
<b>Objective:</b> Use diagnostic resources to determine which level of instruction is needed to help students get ready for the chapter.	

<ul> <li>Chapter Introduction:</li> <li>Introduce the chapter by discussing the theme, "My Summer Fun".</li> <li>View online video to spark a discussion about how math is used in summer fun.</li> <li>Introduce the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> </ul>	<ul> <li>TE pg. 371</li> <li>TE/SE pg. 371</li> <li>Online Video</li> <li>TE/SE pg. 371</li> </ul>
<ul> <li>Am I Ready?</li> <li>Complete the "Am I Ready?" assessment to determine if students have the foundational skills they need in order to successfully learn the new skills and concepts presented in this chapter.</li> </ul>	TE/SE pg. 373
<ul> <li>My Math Words</li> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li>TE/SE pg. 374</li> <li>Review Vocabulary: composite number, divide, hundredths, ones, power, thousands, decimal point, estimate, multiply, place value, tenths</li> </ul>
<ul> <li>My Vocabulary Cards</li> <li>Introduce vocabulary words and complete "My Vocabulary Cards" activity.</li> </ul>	<ul> <li><b>TE/SE pg. 375-376</b></li> <li>New Vocabulary: Associative Property of Multiplication, Commutative Property of Multiplication, Identity Property of Multiplication</li> </ul>
<ul> <li>My Foldable</li> <li>This foldable will aid in understanding powers of 10 and seeing the patterns in the products. Complete the "My Foldable" activities.</li> </ul>	TE/SE pg. 377-378
<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	<ul><li>Online</li><li>Must print letter</li></ul>
<u>Learning Opportunities/Strategies:</u> Lesson 1 - Estimate Products of Whole Numbers and Decimals	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will estimate products of whole numbers and decimals.	
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> <li>Developing Vocabulary</li> </ul>	ТЕ рд. 379А-В
<ul> <li>Problem of the Day</li> </ul>	<ul> <li>Review Vocabulary: decimal, estimate, place value</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 379В
Practice:	TE/SE pg. 379-381

<ul> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math         <ul> <li>Students turn and talk: "Explain how to round 18.9 to the nearest whole number."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 6-14 (even), 15-19</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 382
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 383-384</li> <li>Ticket Out the Door TE pg. 384</li> <li>SE pg. 383-384</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 2 - Hands On - Use Models to Multiply	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore multiplying decimals by whole numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> <li>Problem of the Day</li> </ul>	TE pg. 385A
Build: • Build It	<b>TE/SE pg. 385</b> <ul> <li>10-by-10 grids</li> </ul>
Practice: • Talk About It • Practice It	<b>TE/SE pg. 386-387</b> <ul> <li>10-by-10 grids</li> <li>10-by-10 grids</li> </ul>
Apply: • Apply It • Write About It	TE/SE pg. 388
Wrap Up: Assign homework	TE/SE pg. 389-390
Learning Opportunities/Strategies: Lesson 3 - Multiply Decimals by Whole Numbers	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will multiply decimals by whole numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page

Launch:	ТЕ рд. 391А-В
<ul> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>Review Vocabulary: multiply, factor</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 391В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Is the product of 2.8 and 2 greater than 6 or less than 6? How do you know?"</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 391-393</li> <li>Assign On Level set: 6-16 (even), 18-22</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 394
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE pg. 395-396</b> <ul> <li>Debriefing TE pg. 396</li> <li>SE pg. 395-396</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 4 - Hands On - Use Models to Multiply Decimals	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore using decimals to multiply decimals.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 397А
Build: • Build It	TE/SE pg. 397 ● 10-by-10 grids
Practice: • Talk About It • Practice It	TE/SE pg. 398-399         • 10-by-10 grids         • 10-by-10 grids
Apply: • Apply It • Write About It	TE/SE pg. 400

Wrap Up:	TE/SE pg. 401-402
Assign homework	10
Learning Opportunities/Strategies:	Resources:
Lesson 5 - Multiply Decimals	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will multiply decimals by decimals.	
<b>Review Homework:</b> Review homework problems as	Student Homework Page
needed.	Student Homework Fage
Launch:	ТЕ рд. 403А-В
Remind students of the Essential Question: "How	
is multiplying and dividing decimals similar to	
multiplying and dividing whole numbers?"	
Developing Vocabulary	
<ul> <li>Problem of the Day</li> </ul>	Review Vocabulary: multiply, decimal
Build:	TE ng 403B
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 403В
Practice:	TE/SE pg. 403-405
Math in My World	10
Guided Practice	
Talk Math	
<ul> <li>Students turn and talk: "Describe a</li> </ul>	
multiplication problem in which the	
product is between 0.005 and 1."	Accier On Lovel acts 4.14 (aven) 16.01
Independent Practice	<ul> <li>Assign On Level set: 4-14 (even), 16-21</li> </ul>
Apply:	TE/SE pg. 406
Problem Solving	, pg
Brain Builders	
Wrap Up:	TE/SE pg. 407-408
Complete formative assessment	• Sequence TE pg. 408
Assign homework	• SE pg. 407-408
Learning Opportunities/Strategies:	Resources:
Lesson 6 - Multiply Decimals by Powers of Ten	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will multiply decimals by powers of	
ten.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	TE pg. 411A-B
Remind students of the Essential Question: "How	
is multiplying and dividing decimals similar to	
multiplying and dividing whole numbers?"	
Developing Vocabulary	
	1

Problem of the Day	Review Vocabulary: powers of 10
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 411В
Practice:  Math in My World	TE/SE pg. 411-413
<ul> <li>Guided Practice</li> <li>Talk Math         <ul> <li>Students turn and talk: "Explain how you can mentally find the cost of 10 text messages that each cost \$0.25."</li> </ul> </li> </ul>	
Independent Practice	• Assign On Level set: 12, 14, 16-21
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 414
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 415-416</li> <li>Self-Assessment TE pg. 416</li> <li>SE pg. 415-416</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 7 - Problem-Solving Investigation - Strategy: Look for a Pattern	<b><u>Resources:</u></b> Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will solve problems by looking for a pattern.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 417А-В
Build: • Prepare • Learn the Strategy	<ul> <li>TE pg. 417B</li> <li>TE/SE pg. 417</li> </ul>
<ul><li>Practice:</li><li>Practice the Strategy</li></ul>	TE/SE pg. 418
<ul> <li>Apply:</li> <li>Apply the Strategy</li> <li>Review the Strategy</li> </ul>	<ul> <li>TE/SE pg. 419-420</li> <li>Assign On Level set: 2-10 (even)</li> </ul>
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 421-422</li> <li>Ticket Out the Door TE pg. 421</li> <li>SE pg. 421-422</li> </ul>

Learning Opportunities/Strategies: Lesson 8 - Multiplication Properties	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will use the Associative, Commutative, and Identity Properties to multiply mentally.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> <li>Developing Vocabulary</li> </ul>	<ul> <li>TE pg. 423A-B</li> <li>New Vocabulary: Associative Property of Multiplication, Commutative Property of Multiplication, Identity Property of Multiplication</li> </ul>
Problem of the Day	
Build: • Investigate the Math: Explore, Model, Extend	ТЕ рд. 423В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain how estimation can be used before, during, and after a division problem."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 423-425</li> <li>Assign On Level set: 4-10 (even), 12-16</li> </ul>
Apply: • Problem Solving • Brain Builders	TE/SE pg. 426
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 427-428</li> <li>Ticket Out the Door TE pg. 428</li> <li>SE pg. 427-428</li> </ul>
Learning Opportunities/Strategies: Lesson 9 - Estimate Quotients	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will estimate quotients of decimals and whole numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> </ul> </li> </ul>	ТЕ рд. 429А-В

Developing Vocabulary	
<ul> <li>Problem of the Day</li> </ul>	Review Vocabulary: estimate, quotient
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 429В
Practice:	TE/SE pg. 429-431
Math in My World	
Guided Practice     Tall: Math	
<ul> <li>Talk Math         <ul> <li>Students turn and talk: "Describe another</li> </ul> </li> </ul>	
way you could estimate in Example 2.	
Are both estimates reasonable? Explain."	
Independent Practice	<ul> <li>Assign On Level set: 4-12 (even), 14-19</li> </ul>
Apply:	TE/SE pg. 432
Problem Solving	12/02 pg. 402
Brain Builders	
Wron Lin.	
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> </ul>	<ul> <li>TE/SE pg. 433-434</li> <li>Ticket Out the Door TE pg. 434</li> </ul>
<ul> <li>Assign homework</li> </ul>	• SE pg. 433-434
Learning Opportunities/Strategies:	Resources:
Lesson 10 - Hands On - Divide Decimals	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore dividing decimals by whole numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	TE pg. 437A
Remind students of the Essential Question: "How	
is multiplying and dividing decimals similar to	
multiplying and dividing whole numbers?"	
Problem of the Day	
Build:	TE/SE pg. 437
Build It	base-ten blocks
Practice:	TE/SE pg. 438-439
Talk About It	• base-ten blocks
Practice It	base-ten blocks
Amalu	
Apply:     Apply It	TE/SE pg. 440 • base-ten blocks
Write About It	
Wrap Up:	TE/SE pg. 441-442
Assign homework	

Learning Opportunities/Strategies: Lesson 11 - Divide Decimals by Whole Numbers	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will divide decimals by whole numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul><li><b>TE pg. 443A-B</b></li><li>Review Vocabulary: divide</li></ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 443В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Is the quotient 9.3</li> <li>÷ 15 greater than one or less than one?</li> <li>Explain without calculating."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 443-445</li> <li>Assign On Level set: 4-14 (even), 15-20</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 446
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 447-448</li> <li>Sequence TE pg. 448</li> <li>SE pg. 447-448</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 12 - Hands On - Use Models to Divide Decimals	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore dividing decimals by whole numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 449А

D. ild.	
Build: • Build It	<ul> <li>TE/SE pg. 449</li> <li>base-ten blocks</li> </ul>
	• Dase-ten blocks
Practice:	TE/SE pg. 450-451
Talk About It	<ul> <li>base-ten blocks</li> </ul>
Practice It	base-ten blocks
Apply:	TE/SE pg. 452
Apply It	<ul> <li>base-ten blocks</li> </ul>
Write About It	
Wrap Up:	TE/SE pg. 453-454
Assign homework	
Learning Opportunities/Strategies:	Resources:
Lesson 13 - Divide Decimals	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will divide decimals by decimals.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Laurah	
Launch:	ТЕ рд. 455А-В
<ul> <li>Remind students of the Essential Question: "How is multiplying and dividing desimple similar to</li> </ul>	
is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"	
<ul> <li>Developing Vocabulary</li> </ul>	Review Vocabulary: divisor, dividend
<ul> <li>Problem of the Day</li> </ul>	
Build:	TE pg. 455B
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Practice:	TE/SE pg. 455-457
Math in My World	
Guided Practice	
Talk Math	
<ul> <li>Students turn and talk: "When finding</li> <li>202 + 0.4 burnhast sumplex should you</li> </ul>	
0.808 ÷ 0.4, by what number should you	
<ul><li>multiply the divisor? Explain."</li><li>Independent Practice</li></ul>	<ul> <li>Assign On Level set: 4-14 (even), 15-19</li> </ul>
	- Assign On Level Sel. 4-14 (Even), 13-18
Apply:	TE/SE pg. 458
Problem Solving	
Brain Builders	
Wrap Up:	TE/SE pg. 459-460
Complete formative assessment	Sequence TE pg. 460
Assign homework	• SE pg. 459-460
Learning Opportunities/Strategies:	Resources:
Lesson 14 - Divide Decimals by Powers of Ten	Follow corresponding Lesson Presentation Slides.
Objective: Studente will divide desire la burger of the	
<b>Objective:</b> Students will divide decimals by powers of ten.	

<b>Review Homework:</b> Review homework problems as	Student Homework Page
needed.	
<ul> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> </ul>	ТЕ рд. 461А-В
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	Review Vocabulary: exponents
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 461В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Use the number of zeros in the number 10 to explain why 4.5 ÷ 10 = 0.45."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 461-463</li> <li>Assign On Level set: 4-12 (even), 14-18</li> </ul>
<ul> <li>Apply:</li> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 464
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 465-466</li> <li>Send a Problem TE pg. 466, index cards</li> <li>SE pg. 465-466</li> </ul>
<u>Learning Opportunities/Strategies:</u> Chapter 6 - Review and Reflect	Resources:
<b>Objective:</b> Assess students' understanding of the vocabulary and key concepts in this chapter.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Essential Question:</li> <li>Remind students of the Essential Question: "How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?"</li> </ul>	
Review: • Vocabulary Check • Concept Check • Problem Solving • Brain Builders	TE/SE pg. 467-469
Reflect:	TE/SE pg. 470

Assign homework:		n/a	
<u>Differentiation</u> *Please note: Teachers who have students with 504 plans that require curricular accommodations are to refer to Struggling and/or Special Needs Section for differentiation.			ricular accommodations are
High-Achieving Students	On Grade Level Students	Struggling Students	Special Needs/ELL
<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "Beyond Level"</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> </ul> </li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "On Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill english Language Learner Guide to provide</li> </ul> </li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize the McGraw Hill online lesson</li> </ul></li></ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize the McGraw Hill online lesson animations to demonstrate a model/sample</li> </ul></li></ul>

Language Learner Guide to provide	Guide to provide foundational support • Specific use of modalities - kinesthetic, visual, auditory, tactile • The multilingual eGlossary can support vocabulary Learning Station • My Learning Station student-led
	activity

### Chapter 7: Expressions and Patterns

### Stage 1: Desired Results

#### Standards & Indicators:

### NJSLS for Mathematics

- **5.OA.1** Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.
- 5.OA.2 Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. For example, express the calculation "add 8 and 7, then multiply by 2" as 2 × (8 + 7). Recognize that 3 × (18932 + 921) is three times as large as 18932 + 921, without having to calculate the indicated sum or product.
- **5.OA.3** Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. For example, given the rule "Add 3" and the starting number 0, and given the rule "Add 6" and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.
- **5.NBT.7** Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.
- **5.G.1** Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis and x-coordinate, y-axis and y-coordinate).
- **5.G.2** Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.
- **5.DL.1** Understand how different visualizations can highlight different aspects of data. Ask questions and interpret data visualizations to describe and analyze patterns.
- **5.DL.4**-Using appropriate visualizations (i.e. double line plot, double bar graph), analyze data across samples.

### **NJSLS for Mathematical Practice**

- **1.** Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.

<ul> <li>4 Model with mathematics.</li> </ul>	
<ul> <li>5 Use appropriate tools strategically.</li> </ul>	
6 Attend to precision.	
• 7 Look for and make use of structure.	
• 8 Look for and express regularity in repeated reas	soning.
Central Idea / Enduring Understanding:	Essential/Guiding Question:
Students will	<ul> <li>How are patterns used to solve problems?</li> </ul>
<ul> <li>use the order of operations to simplify</li> </ul>	
expressions.	
write verbal phrases as mathematical	
expressions.	
<ul> <li>use addition and subtraction to describe and</li> </ul>	
extend a number pattern.	
<ul> <li>name ordered pairs for points on a coordinate</li> </ul>	
plane.	
<ul> <li>compare numerical patterns graphically.</li> </ul>	
Content:	Skills (Objectives):
<ul> <li>Hands On: Numerical Expressions</li> </ul>	Write and evaluate numerical expressions.
Order of Operations	<ul> <li>Use the order of operations to evaluate</li> </ul>
Write Numerical Expressions	expressions.
Problem-Solving Investigation: Work Backward	<ul> <li>Explore using decimal models to multiply</li> </ul>
<ul> <li>Hands On: Generate Patterns</li> </ul>	decimals.
Patterns	<ul> <li>Multiply decimals by decimals.</li> </ul>
<ul> <li>Hands On: Map Locations</li> </ul>	<ul> <li>Identify and extend patterns and sequences.</li> </ul>
Ordered Pairs	• Plot points on a grid to solve real-world problems.
Graph Patterns	<ul> <li>Graph points on a coordinate plane to solve</li> </ul>
	real-world and mathematical problems.
	<ul> <li>Graph ordered pairs on a coordinate plane to</li> </ul>
	solve problems involving two numerical patterns.

### Interdisciplinary Connection(s):

### NJSLS for Literacy

- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- SL.ES.5.3. Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

### NJSLS for Social Studies

• **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).

- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

### NJSLS for Science

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

### NJSLS for Career Readiness, Life Literacies, and Key Skills

- **9.4.5.Cl.3**: Participate in a brainstorming session with individuals with diverse perspectives to expand one's thinking about a topic of curiosity.
- 9.4.5.CT.1: Identify and gather relevant data that will aid in the problem-solving process.
- **9.4.5.CT.2**: Identify a problem and list the types of individuals and resources (e.g., school, community agencies, governmental, online) that can aid in solving the problem.
- 9.4.5.CT.3: Describe how digital tools and technology may be used to solve problems.
- **9.4.5.CT.4**: Apply critical thinking and problem-solving strategies to different types of problems such as personal, academic, community and global.
- **9.4.5.IML.1**: Evaluate digital sources for accuracy, perspective, credibility and relevance (e.g., Social Studies Practice Gathering and Evaluating Sources).
- 9.4.5.IML.2: Create a visual representation to organize information about a problem or issue.
- 9.4.5.IML.3: Represent the same data in multiple visual formats in order to tell a story about the data.
- **9.4.5.IML.6**: Use appropriate sources of information from diverse sources, contexts, disciplines, and cultures to answer questions.
- **9.4.5.IML.7**: Evaluate the degree to which information meets a need including social emotional learning, academic, and social.
- **9.4.5.TL.3**: Format a document using a word processing application to enhance text, change page formatting, and include appropriate images, graphics, or symbols.
- 9.4.5.TL.4: Compare and contrast artifacts produced individually to those developed collaboratively.
- 9.4.5.TL.5: Collaborate digitally to produce an artifact.

#### Stage 2: Assessment Evidence **Diagnostic Assessment:** Summative Assessment: • Am I Ready? My Review • Reflect • **Formative Assessments:** • Chapter 7 - Assessment • Sequence Chapter 7 - Performance Task Quick Write Ticket Out the Door **Benchmark Assessment:** • Turn to Your Partner n/a • Written Reflections Quick Check • Send a Problem • Self-Assessment • Talk Math • **Independent Practice** • **Check My Progress** • Stage 3: Learning Plan Learning Opportunities/Strategies: **Resources: Chapter Introduction**

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<b>Objective:</b> Use diagnostic resources to determine which level of instruction is needed to help students get ready for the chapter.	
<ul> <li>Chapter Introduction:</li> <li>Introduce the chapter by discussing the theme, "Fun with My Friends".</li> <li>View online video to spark a discussion about how math is used in fun with their friends.</li> <li>Introduce the Essential Question: "How are patterns used to solve problems?"</li> </ul>	<ul> <li>TE pg. 471</li> <li>TE/SE pg. 471</li> <li>Online Video</li> <li>TE/SE pg. 471</li> </ul>
<ul> <li>Am I Ready?</li> <li>Complete the "Am I Ready?" assessment to determine if students have the foundational skills they need in order to successfully learn the new skills and concepts presented in this chapter.</li> </ul>	TE/SE pg. 473
<ul> <li>My Math Words</li> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li><b>TE/SE pg. 474</b></li> <li>Review Vocabulary: perpendicular</li> </ul>
<ul> <li>My Vocabulary Cards</li> <li>Introduce vocabulary words and complete "My Vocabulary Cards" activity.</li> </ul>	<ul> <li>TE/SE pg. 475-478</li> <li>New Vocabulary: coordinate plane, evaluate, numerical expression, ordered pair, order of operations, origin, sequence, term</li> </ul>
<ul> <li>My Foldable</li> <li>This foldable will aid in problem solving by applying the order of operations. Complete the "My Foldable" activities.</li> </ul>	TE/SE pg. 479-480
<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	<ul><li>Online</li><li>Must print letter</li></ul>
<u>Learning Opportunities/Strategies:</u> Lesson 1 - Hands On - Numerical Expressions	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will write and evaluate numerical expressions.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How are patterns used to solve problems?"</li> <li>Developing Vocabulary</li> </ul>	<ul><li>TE pg. 481A</li><li>New Vocabulary: evaluate, numerical expression</li></ul>
Problem of the Day	
Build:	TE/SE pg. 481

Build It	bar diagram
Practice: <ul> <li>Talk About It</li> <li>Practice It</li> </ul>	<ul> <li>TE/SE pg. 482-483</li> <li>bar diagram</li> <li>bar diagram</li> </ul>
Apply: • Apply It • Write About It	TE/SE pg. 484
Wrap Up: ● Assign homework	TE/SE pg. 485-486
Learning Opportunities/Strategies: Lesson 2 - Order of Operations	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will use the order of operations to evaluate expressions.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How are patterns used to solve problems?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul><li>TE pg. 487A-B</li><li>New Vocabulary: order of operations</li></ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 487В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain why it is important to follow the order of operations when evaluating 15 + 3 x 4."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 487-489</li> <li>Assign On Level set: 2-10 (even), 12-16</li> </ul>
Apply: • Problem Solving • Brain Builders	TE/SE pg. 490
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE pg. 491-492</b> • Quick Write TE pg. 492 • SE pg. 491-492
Learning Opportunities/Strategies: Lesson 3 - Write Numerical Expressions	Resources: Follow corresponding Lesson Presentation Slides.

Objective: Students will use numbers and operation	
symbols to write verbal phrases as numerical	
expressions.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
needed.	
Launch:	ТЕ рд. 493А-В
<ul> <li>Remind students of the Essential Question: "How</li> </ul>	
are patterns used to solve problems?"	
Developing Vocabulary	<ul> <li>Review Vocabulary: numerical expressions, order of operations</li> </ul>
Problem of the Day	
Build:	ТЕ рд. 493В
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Practice:	TE/SE pg. 493-495
Math in My World	
Guided Practice	
<ul> <li>Talk Math         <ul> <li>Students turn and talk: "Write a real-world</li> </ul> </li> </ul>	
<ul> <li>Students turn and talk: "Write a real-world problem that could be represented by a</li> </ul>	
numerical expression."	
Independent Practice	<ul> <li>Assign On Level set: 2-6 (even), 7-11</li> </ul>
	75/05 400
Apply:     Problem Solving	TE/SE pg. 496
Brain Builders	
Wrap Up:	TE pg. 497-498
Complete formative assessment	<ul> <li>Turn to Your Partner TE pg. 498</li> <li>SE pg. 407 408</li> </ul>
Assign homework	• SE pg. 497-498
Learning Opportunities/Strategies:	Resources:
Lesson 4 - Problem-Solving Investigation - Strategy:	Follow corresponding Lesson Presentation Slides.
Work Backward	
<b>Objective:</b> Students will solve problems by working	
backwards.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 499А-В
Remind students of the Essential Question: "How	
are patterns used to solve problems?"	
Problem of the Day	
Build:	
Prepare	• TE pg. 499B
Learn the Strategy	• TE/SE pg. 499

Practice:       TE/SE pg. 500         • Practice the Strategy       TE/SE pg. 501-502         • Apply the Strategy       TE/SE pg. 501-502         • Review the Strategy       TE pg. 503-504         • Complete formative assessment       • Ticket Out the Door TE pg. 504         • Assign homework       • SE pg. 503-504         Learning Opportunities/Strategies:       Resources:         Lesson 5 - Hands On - Generate Patterns       Follow corresponding Lesson Presentation Slides.
Apply:       TE/SE pg. 501-502         • Apply the Strategy       TE pg. 503-504         • Complete formative assessment       • Ticket Out the Door TE pg. 504         • Assign homework       • SE pg. 503-504         Learning Opportunities/Strategies:       Resources:
<ul> <li>Apply the Strategy</li> <li>Review the Strategy</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:</li> </ul>
<ul> <li>Apply the Strategy</li> <li>Review the Strategy</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:</li> </ul>
<ul> <li>Review the Strategy</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:</li> </ul>
Wrap Up:       • Complete formative assessment         • Assign homework       • Ticket Out the Door TE pg. 504         • Learning Opportunities/Strategies:       • Resources:
Complete formative assessment     Assign homework     Learning Opportunities/Strategies:     Resources:
Complete formative assessment     Assign homework     Learning Opportunities/Strategies:     Resources:
Assign homework     SE pg. 503-504     Learning Opportunities/Strategies:     Resources:
Learning Opportunities/Strategies: Resources:
Lesson 5 - Hands On - Generate Patterns Follow corresponding Lesson Presentation Slides.
Objective: Students will generate numerical patterns and
identify pattern relationships.
Review Homework: Review homework problems as Student Homework Page
needed.
Launch: TE pg. 507A
Remind students of the Essential Question: "How are patterns used to solve problems?"
<ul> <li>Problem of the Day</li> </ul>
Build: TE/SE pg. 507
Build It     toothpicks
Practice: TE/SE pg. 508-509
Talk About It     Talk About It
Practice It     toothpicks
Apply: TE/SE pg. 510
Apply It     toothpicks
Write About It
Wrap Up: TE/SE pg. 511-512
Assign homework
Learning Opportunities/Strategies:
Learning Opportunities/Strategies:Resources:Lesson 6 - PatternsFollow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students identify and extend patterns and
sequence.
Review Homework: Review homework problems as Student Homework Page
needed.
Launch: TE pg. 513A-B
Remind students of the Essential Question: "How
are patterns used to solve problems?"
Developing Vocabulary     New Vocabulary: sequence, term
Problem of the Day

E pg. 513B E/SE pg. 513-515
E/SE pg. 513-515
<ul> <li>Assign On Level set: 2-12 (even), 14-16</li> </ul>
E/SE pg. 516
<ul> <li>E/SE pg. 517-518</li> <li>Send a Problem TE pg. 518</li> <li>SE pg. 517-518</li> </ul>
<u>esources:</u> ollow corresponding Lesson Presentation Slides.
tudent Homework Page
E pg. 519A
E/SE pg. 519 ● grid paper
E/SE pg. 520-521
E/SE pg. 522
E/SE pg. 523-524
esources: ollow corresponding Lesson Presentation Slides.

<b>Objective:</b> Students will graph points on a coordinate	
plane to solve real-world and mathematical problems.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How are patterns used to solve problems?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>TE pg. 525A-B</li> <li>New Vocabulary: coordinate plane, ordered pair, origin, x-coordinate, y-coordinate</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	TE pg. 525B
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Are the points at (3, 8) and (8, 3) in the same location? Explain your reasoning."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 525-527</li> <li>Assign On Level set: 4-14 (even), 15-22</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 528
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 529-530</li> <li>Ticket Out the Door TE pg. 530</li> <li>SE pg. 529-530</li> </ul>
Learning Opportunities/Strategies: Lesson 9 - Graph Patterns	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will graph ordered pairs on a coordinate plane to solve problems involving two numerical patterns.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How are patterns used to solve problems?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul><li><b>TE pg. 531A-B</b></li><li>Review Vocabulary: pattern</li></ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 531В
Practice:	TE/SE pg. 531-533

		1	
Math in My World			
<ul> <li>Guided Practice</li> <li>Talk Math</li> </ul>			
	nd talk: "Explain how you		
	o real-world patterns using		
ordered pairs."	- · · · · · · · · · · · · · · · · · · ·		
Independent Practice		<ul> <li>Assign On Level set:</li> </ul>	2-6
Apply		TE/9E ng 524	
<ul> <li>Apply:</li> <li>Problem Solving</li> </ul>		TE/SE pg. 534	
Brain Builders			
Climate Change Opportunity:		Climate Change Example	
Students will represent			
the first quadrant of the	on by graphing points in		
Students may interpret			
points in the context of			
Wree Up		TE/OF ma 525 500	
<ul> <li>Wrap Up:</li> <li>Complete formative ass</li> </ul>	essment	<ul> <li>TE/SE pg. 535-536</li> <li>Quick Write TE pg. 5</li> </ul>	36
<ul> <li>Assign homework</li> </ul>	essment	<ul> <li>SE pg. 535-536</li> </ul>	
Learning Opportunities/Strate		Resources:	
Chapter 7 - Review and Reflect	ct in the second s		
Objective: Assess students' un	derstanding of the		
vocabulary and key concepts in			
Review Homework: Review ho	mework problems as	Student Homework Page	
needed.			
Essential Question:			
Remind students of the	Essential Question: "How		
are patterns used to sol	ve problems?"		
Review:		TE/SE pg. 537-539	
Vocabulary Check		12,02 pg. 007 000	
Concept Check			
<ul> <li>Problem Solving</li> </ul>			
Brain Builders			
Reflect:		TE/SE pg. 540	
Assign homework:		n/a	
Differentiation *Please note: Te	eachers who have students	l with 504 plans that require our	ricular accommodations are
to refer to Struggling and/or Spe			
High-Achieving Students	On Grade Level	Struggling Students	Special Needs/ELL
	Students		
Small Group	Small Group	Small Group	Small Group
Utilize gradual	Utilize gradual	Specific use of	<ul> <li>Specific use of</li> </ul>
release model	release model	modalities -	modalities -

Modify problem set to Modify problem kinesthetic, visual. kinesthetic. visual. • "Beyond Level" set to "On Level" auditory, tactile auditory, tactile Focus on critical Utilize "Reteach" Utilize gradual Utilize gradual • • • • thinking questions at problem-set to release model release model Modify problem set Modify problem set the end of the lesson. model questions. • • Technology • Focus on critical to "Approaching to "Approaching Participate in RedBird thinkina Level" Level" • questions at the Utilize "Reteach" Utilize "Reteach" Math individualized • • learning path end of the problem-set to problem-set to • Participate in Reflex lesson. model questions. model questions. Math individualized Technology Focus on critical Focus on critical • • learning path Participate in thinking questions thinking questions • Utilize McGraw Hill at the end of the at the end of the RedBird Math • lesson. lesson. eTools for online individualized manipulative support learning path Pair with on grade Pair with on grade • • • Utilize McGraw Hill Participate in level or level or • Reflex Math Personal Tutor to higher-achieving higher-achieving demonstrate a individualized students to students to learning path problem solve problem solve model/sample Technology • Utilize McGraw Hill • Utilize McGraw Technology online lesson Hill eTools for Participate in Participate in • • RedBird Math RedBird Math animations to online manipulative individualized individualized demonstrate a model/sample support learning path learning path Utilize the McGraw • Utilize McGraw Participate in Participate in Hill English Language Hill Personal Reflex Math Reflex Math Learner Guide to Tutor to individualized individualized provide demonstrate a learning path learning path model/sample • Utilize McGraw Hill Utilize McGraw Hill • Utilize McGraw eTools for online eTools for online Hill online lesson manipulative manipulative animations to support support Utilize McGraw Hill Utilize McGraw Hill demonstrate a • • Personal Tutor to Personal Tutor to model/sample • Utilize the demonstrate a demonstrate a McGraw Hill model/sample model/sample English Utilize McGraw Hill Utilize McGraw Hill • • Language online lesson online lesson Learner Guide to animations to animations to provide demonstrate a demonstrate a model/sample model/sample • Utilize the McGraw Utilize the McGraw Hill English Hill English Language Learner Language Learner Guide to provide Guide to provide foundational support Specific use of modalities kinesthetic, visual, auditory, tactile

	The multilingual
	eGlossary can
	support vocabulary
	Learning Station
	<ul> <li>My Learning</li> </ul>
	Station student-led
	activity

#### Chapter 8: Fractions and Decimals

### Stage 1: Desired Results

#### Standards & Indicators:

#### **NJSLS for Mathematics**

- **5.NBT.5** With accuracy and efficiency, multiply multi-digit whole numbers using the standard algorithm.
- 5.NF.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result 2/5 + 1/2 = 3/7, by observing that 3/7 < 1/2.</li>
- **5.NF.3** Interpret a fraction as division of the numerator by the denominator (i.e.  $a/b = a \div b$ ). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem. For example, interpret 3/4 as the result of dividing 3 by 4, noting that 3/4 multiplied by 4 equals 3, and that when 3 wholes are shared equally among 4 people each person has a share of size 3/4. If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?
- **5.NF.5b** Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence a/b = (n×a)/(n×b) to the effect of multiplying a/b by 1.

#### **NJSLS for Mathematical Practice**

- 1. Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.
- **4.** Model with mathematics.
- **5.** Use appropriate tools strategically.
- 6. Attend to precision.
- 7. Look for and make use of structure.
- 8. Look for and express regularity in repeated reasoning.

Central Idea / Enduring Understanding:	Essential/Guiding Question:
<ul> <li>Students will</li> <li>use a fraction to represent division.</li> <li>use models to represent division.</li> <li>write a fraction in the simplest form.</li> <li>compare fractions with unlike denominators.</li> <li>use models to write a fraction as a decimal.</li> </ul>	<ul> <li>How are factors and multiples helpful in solving problems?</li> </ul>
Content:     Fractions and Division     Greatest Common Factor     Simplest Form	<ul> <li>Skills (Objectives):</li> <li>Solve word problems by interpreting a fraction as division of the numerator by the denominator.</li> </ul>

<ul> <li>Problem-Solving Investigation: Guess, Check, and Revise</li> <li>Least Common Multiple</li> <li>Compare Fractions</li> <li>Hands On: Use Models to Write Fractions as Decimals</li> <li>Write Fractions as Decimals</li> </ul>	<ul> <li>Determine the common factors and the greatest common factor of a set of numbers.</li> <li>Generate equivalent fractions by writing a fraction in simplest form.</li> <li>Guess, check, and revise to solve problems.</li> <li>Determine the common multiples and the least common multiple of a set of numbers.</li> <li>Compare fractions by using the least common denominator.</li> <li>Explore how to use models and fraction equivalence to write fractions as decimals.</li> <li>Use fraction equivalence to write fractions as</li> </ul>
	<ul> <li>Use fraction equivalence to write fractions as decimals.</li> </ul>

#### Interdisciplinary Connection(s):

#### NJSLS for Literacy

- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- **SL.ES.5.3.** Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

#### **NJSLS for Social Studies**

- **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).
- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

#### NJSLS for Science

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

#### NJSLS for Career Readiness, Life Literacies, and Key Skills

• 9.2.5.CAP.1: Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.

Stage 2: Assessment Evidence	
Diagnostic Assessment:     Am I Ready?	Summative Assessment: • My Review • Reflect

Formative Assessments:	Chapter 8 - Assessment	
Quick Write	Chapter 8 - Performance Task	
Ticket Out the Door		
Summarize	Benchmark Assessment:	
Turn to Your Partner	• n/a	
Self-Assessment		
<ul> <li>Analogy Prompt</li> </ul>		
<ul> <li>Directed Paraphrasing</li> </ul>		
<ul> <li>Talk Math</li> </ul>		
Independent Practice     Chask Mu Programs		
Check My Progress		
	earning Plan	
Learning Opportunities/Strategies:	Resources:	
Chapter Introduction		
<b>Objective:</b> Use diagnostic resources to determine which		
level of instruction is needed to help students get ready		
for the chapter.		
Chapter Introduction:	TE pg. 541	
• Introduce the chapter by discussing the theme,	• TE/SE pg. 541	
"Let's Play Games and Sports!"		
<ul> <li>View online video to spark a discussion about</li> </ul>	Online Video	
how math is used in games and sports.		
<ul> <li>Introduce the Essential Question: "How are</li> </ul>	• TE/SE pg. 541	
factors and multiples helpful in solving problems?"		
Am I Ready?	TE/SE pg. 543	
<ul> <li>Complete the "Am I Ready?" assessment to</li> </ul>		
determine if students have the foundational skills		
they need in order to successfully learn the new		
skills and concepts presented in this chapter.		
My Moth Words		
My Math Words	TE/SE pg. 544	
Review vocabulary words and complete "My Math Wande" a stirite.	Review Vocabulary: decimal, equivalent	
Words" activity.	decimals, multiples, prime factorization	
My Vocabulary Cards	TE/SE pg. 545-548	
Introduce vocabulary words and complete "My	New Vocabulary: common factor, common	
Vocabulary Cards" activity.	multiple, denominator, equivalent fractions,	
· · ·	fraction, greatest common factor (GCF), least	
	common denominator (LCD), least common	
	multiple (LCM)	
My Foldable	TE/SE pg. 549-550	
Use this foldable to write fractions as decimals.		
Complete the "My Foldable" activities.		
Wrap Up	Online	
<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	Online     Must print letter	

Learning Opportunities/Strategies: Lesson 1 - Fractions and Division Objective: Students will solve word problems by interpreting a fraction as division of the numerator by the denominator.	<b>Resources:</b> Follow corresponding Lesson Presentation Slides.
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How are factors and multiples helpful in solving problems?"</li> </ul> </li> </ul>	ТЕ рд. 551А-В
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	<ul> <li>New Vocabulary: denominator, fraction, numerator</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 551В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Give an example of how a fraction represents a division situation in real life."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 551-553</li> <li>Assign On Level set: 2, 4-9</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 554
<ul> <li>Climate Change Opportunity:</li> <li>Students will examine the impact climate change has on agriculture. Students may solve word problems about the distribution of rice that involve the division of whole numbers and lead to answers in the form of fractions.</li> </ul>	<ul> <li>Climate Change Example:</li> <li>Ten years ago, a local farm sold 30 pounds of rice each season. The farm equally divided the rice into 12 large storage containers. How many pounds of rice does each container hold?</li> <li>Due to climate change, the local farmer now can only sell 20 pounds of rice each season. If the farm still splits the rice into 12 storage containers, how many pounds of rice does each container hold now?</li> </ul>
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul><li>Ticket Out the Door TE pg. 556</li><li>SE pg. 554-556</li></ul>
Learning Opportunities/Strategies: Lesson 2 - Greatest Common Factor	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will determine the common factors and the greatest common factor of a set of numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	ТЕ рд. 557А-В

<ul> <li>Remind students of the Essential Question: "How are factors and multiples helpful in solving problems?"</li> <li>Developing Vocabulary</li> </ul>	<ul> <li>New Vocabulary: common factors, greatest common factor (GCF)</li> </ul>
<ul> <li>Problem of the Day</li> </ul>	
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 557В
Practice:	TE/SE pg. 557-559
<ul> <li>Math in My World</li> <li>Guided Practice</li> </ul>	
<ul> <li>Talk Math         <ul> <li>Students turn and talk: "Explain which method you prefer to find the GCF of two numbers."</li> </ul> </li> </ul>	
Independent Practice	<ul> <li>Assign On Level set: 4-10 (even), 11-15</li> </ul>
Apply:	TE/SE pg. 560
<ul><li> Problem Solving</li><li> Brain Builders</li></ul>	
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 561-562</li> <li>Ticket Out the Door TE pg. 562</li> <li>SE pg. 561-562</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 3 - Simplest Form	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will generate equivalent fractions by writing a fraction in simplest form.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	ТЕ рд. 563А-В
<ul> <li>Remind students of the Essential Question: "How are factors and multiples helpful in solving</li> </ul>	
<ul><li>problems?"</li><li>Developing Vocabulary</li></ul>	New Vocabulary: equivalent fractions, simplest
Problem of the Day	form
Build:	ТЕ рд. 563В
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Math in My World	TE/SE pg. 563-565
Guided Practice	
<ul> <li>Talk Math         <ul> <li>Students turn and talk: "Explain how to find the simplest form of any fraction."</li> </ul> </li> </ul>	

Independent Practice	Assign On Level set: 4-14 (even), 15-18
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 566
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 567-568</li> <li>Turn to Your Partner TE pg. 568</li> <li>SE pg. 567-568</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 4 - Problem-Solving Investigation - Strategy: Guess, Check, and Revise	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will guess, check, and revise to solve problems.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How are factors and multiples helpful in solving problems?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 569А-В
Build: <ul> <li>Prepare</li> <li>Learn the Strategy</li> </ul>	<ul> <li>TE pg. 569B</li> <li>TE/SE pg. 569</li> </ul>
<ul><li>Practice:</li><li>Practice the Strategy</li></ul>	TE/SE pg. 570
<ul><li>Apply:</li><li>Apply the Strategy</li><li>Review the Strategy</li></ul>	TE/SE pg. 571-572
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 573-574</li> <li>Ticket Out the Door TE pg. 574</li> <li>SE pg. 573-574</li> </ul>
Learning Opportunities/Strategies: Lesson 5 - Least Common Multiple	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will determine the common multiples and the least common multiple of a set of numbers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	ТЕ рд. 577А-В

<ul> <li>Remind students of the Essential Question: "How are factors and multiples helpful in solving problems?"</li> <li>Developing Vocabulary</li> </ul>	<ul> <li>New Vocabulary: common multiples, least common multiple (LCM), multiple</li> </ul>
<ul> <li>Problem of the Day</li> <li>Build: <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> </ul>	ТЕ рд. 577В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Could the LCM of two numbers be one of the numbers? Explain."</li> </ul> </li> </ul>	TE/SE pg. 577-579
<ul> <li>Independent Practice</li> <li>Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul> </li> </ul>	<ul> <li>Assign On Level set: 4-14 (even), 15-19</li> <li>TE/SE pg. 580</li> </ul>
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE/SE pg. 581-582</b> <ul> <li>Summarize TE pg. 581</li> <li>SE pg. 581-582</li> </ul>
Learning Opportunities/Strategies: Lesson 6 - Compare Fractions	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will compare fractions by using the least common denominator.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How are factors and multiples helpful in solving problems?"</li> </ul>	ТЕ рд. 583А-В
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	<ul> <li>New Vocabulary: least common denominator (LCD)</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 583В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math</li> </ul>	TE/SE pg. 583-585

<ul> <li>Students turn and talk: "Explain how the</li> </ul>	
LCM and the LCD are alike. How are	
they different?"	
<ul> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 2-12 (even), 14-16</li> </ul>
Apply:	TE/SE pg. 586
Problem Solving	
Brain Builders	
Man Lini	
Wrap Up:	TE/SE pg. 587-588
Complete formative assessment	Quick Write TE pg. 588
Assign homework	• SE pg. 587-588
Learning Opportunities/Strategies:	Resources:
Lesson 7 - Hands On - Use Models to Write Fractions	Follow corresponding Lesson Presentation Slides.
as Decimals	ronow corresponding Lesson rresentation ondes.
<b>Objective:</b> Students will explore how to use models and	
fraction equivalence to write fractions as decimals.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	TE pg. 589A
Remind students of the Essential Question: "How	
are factors and multiples helpful in solving	
problems?"	
Problem of the Day	
Build:	TE/SE pg. 589
Draw It	<ul> <li>tenths and hundredths grid</li> </ul>
	• tentins and nundredtins grid
Practice:	TE/SE pg. 590-591
Talk About It	1 E/SE pg. 590-591
Practice It	
Apply:	TE/SE ng 592
Apply:	TE/SE pg. 592
<ul> <li>Apply It</li> <li>Write About It</li> </ul>	
Wrap Up:	TE/SE pg. 593-594
Assign homework	1 L/OE pg. 000-004
Learning Opportunities/Strategies:	Resources:
Lesson 8 - Write Fractions as Decimals	Follow corresponding Lesson Presentation Slides.
LESSON O - WITLE FLACTIONS AS DECIMAIS	i onow corresponding Lesson Presentation Sildes.
<b>Objective:</b> Students will use fraction equivalence to write	
fractions as decimals.	
Poview Homework: Poview homework problems as	Student Homowork Page
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 595А-В
	ть ру. 330А-D

• Remind students of the Essential Question: "How		
are factors and multiples helpful in solving		
problems?"		
Developing Vocabulary	Review Vocabulary: decimal, fraction	
Problem of the Day		
Build:	ТЕ рд. 595В	
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ ру. 595В	
Practice:	TE/SE pg. 595-597	
Math in My World		
Guided Practice		
Talk Math		
<ul> <li>Students turn and talk: "Explain how to</li> </ul>		
write a fraction as a decimal using		
equivalent fractions."		
Independent Practice	<ul> <li>Assign On Level set: 4-18 (even), 19-22</li> </ul>	
Apply:	TE/SE pg. 598	
Problem Solving		
Brain Builders		
Wrap Up:	TE/SE pg. 599-600	
Complete formative assessment	<ul> <li>Ticket Out the Door TE pg. 600</li> </ul>	
<ul> <li>Assign homework</li> </ul>	<ul> <li>SE pg. 599-600</li> </ul>	
	0 <u>0 pg</u> . 000 000	
Learning Opportunities/Strategies:	Resources:	
Chapter 8 - Review and Reflect		
Objective: Assess students' understanding of the		
vocabulary and key concepts in this chapter.		
Review Homework: Review homework problems as	Student Homework Page	
needed.		
Econtial Question		
<ul> <li>Essential Question:</li> <li>Remind students of the Essential Question: "How</li> </ul>		
<ul> <li>Remind students of the Essential Question. How are factors and multiples helpful in solving</li> </ul>		
problems?"		
Review:	TE/SE pg. 601-603	
Vocabulary Check		
Concept Check		
Problem Solving		
Brain Builders		
Reflect:	TE/SE pg. 604	
Assign homework:	n/a	
Differentiation *Please note: Teachers who have students with 504 plans that require curricular accommodations are		

to refer to Struggling and/or Special Needs Section for differentiation.

High-Achieving Students	On Grade Level Students	Struggling Students	Special Needs/ELL
<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "Beyond Level"</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> </ul> </li> <li>Utilize the CGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	Small Group         • Utilize gradual release model         • Modify problem set to "On Level"         • Utilize "Reteach" problem-set to model questions.         • Focus on critical thinking questions at the end of the lesson.         Technology         • Participate in RedBird Math individualized learning path         • Participate in Reflex Math individualized learning path         • Utilize McGraw Hill e Tools for online manipulative support         • Utilize McGraw Hill Personal Tutor to demonstrate a model/sample         • Utilize McGraw Hill online lesson animations to demonstrate a model/sample         • Utilize the McGraw Hill online lesson animations to demonstrate a model/sample	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize the McGraw Hill online lesson animations to demonstrate a model/sample</li> </ul> </li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize the McGraw Hill online lesson animations to demonstrate a model/sample</li> </ul> </li> </ul>

	<ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>The multilingual eGlossary can support vocabulary</li> <li>Learning Station</li> <li>My Learning Station student-led</li> </ul>
	activity

#### **<u>Chapter 9</u>**: Add and Subtract Fractions

### **Stage 1: Desired Results**

#### Standards & Indicators:

#### **NJSLS for Mathematics**

- **5.NF.1** Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. For example, 2/3 + 5/4 = 8/12 + 15/12 = 23/12. (In general, a/b + c/d = (ad + bc)/bd.)
- 5.NF.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result 2/5 + 1/2 = 3/7, by observing that 3/7 < 1/2.</li>

#### **NJSLS for Mathematical Practice**

- 1. Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.
- 4. Model with mathematics.
- **5.** Use appropriate tools strategically.
- **6.** Attend to precision.
- 7. Look for and make use of structure.
- **8.** Look for and express regularity in repeated reasoning.

• <b>o.</b> - Look for and express regularity in repeated reasoning.		
<ul> <li>Central Idea / Enduring Understanding:</li> <li>Students will</li> <li>use fraction tiles to model the sum of fractions.</li> <li>add and subtract like fractions.</li> <li>add and subtract unlike fractions.</li> <li>estimate the sum and difference of mixed numbers.</li> <li>add and subtract mixed numbers.</li> </ul>	<ul> <li>Essential/Guiding Question:</li> <li>How can equivalent fractions help me add and subtract fractions?</li> </ul>	
<ul> <li>Content:</li> <li>Round Fractions</li> <li>Add Like Fractions</li> <li>Subtract Like Fractions</li> <li>Hands On: Use Models to Add Unlike Fractions</li> <li>Add Unlike Fractions</li> </ul>	<ul> <li>Skills (Objectives):</li> <li>Use number lines and benchmark fractions, such as ½, to round fractions.</li> <li>Add like fractions and solve word problems involving the addition of like fractions.</li> <li>Subtract like fractions and solve word problems involving the subtraction of like fractions.</li> </ul>	

<ul> <li>Hands On: Use Models to Subtract Unlike Fractions</li> <li>Subtract Unlike Fractions</li> <li>Problem-Solving Investigation: Determine Reasonable Answers</li> <li>Estimate Sums and Differences</li> <li>Hands On: Use Models to Add Mixed Numbers</li> <li>Add Mixed Numbers</li> <li>Subtract Mixed Numbers</li> <li>Subtract With Renaming</li> <li>Use number sense and benchmark fractions to estimate sums and differences.</li> <li>Use numbers and solve word problems involving the subtraction of unlike fractions.</li> <li>Subtract With Renaming</li> <li>Use number sense and benchmark fractions to estimate sums and differences.</li> <li>Explore adding mixed numbers and solve word problems involving the subtraction of mixed numbers.</li> <li>Subtract mixed numbers and solve word problems involving the subtraction of mixed numbers.</li> <li>Use fraction equivalence to subtract with renaming.</li> </ul>		
	<ul> <li>Fractions</li> <li>Subtract Unlike Fractions</li> <li>Problem-Solving Investigation: Determine Reasonable Answers</li> <li>Estimate Sums and Differences</li> <li>Hands On: Use Models to Add Mixed Numbers</li> <li>Add Mixed Numbers</li> <li>Subtract Mixed Numbers</li> </ul>	<ul> <li>Add unlike fractions and solve word problems involving the addition of unlike fractions.</li> <li>Use models to subtract unlike fractions.</li> <li>Subtract unlike fractions and solve word problems involving the subtraction of unlike fractions.</li> <li>Solve problems by determining reasonable answers.</li> <li>Use number sense and benchmark fractions to estimate sums and differences.</li> <li>Explore adding mixed numbers using models.</li> <li>Add mixed numbers and solve word problems involving the addition of mixed numbers.</li> <li>Subtract mixed numbers and solve word problems involving the subtraction of mixed numbers.</li> <li>Use fraction equivalence to subtract with</li> </ul>

#### Interdisciplinary Connection(s):

#### NJSLS for Literacy

- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- **SL.ES.5.3.** Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

#### **NJSLS for Social Studies**

- **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).
- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

#### **NJSLS for Science**

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

#### NJSLS for Career Readiness, Life Literacies, and Key Skills

• 9.2.5.CAP.1: Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.

<ul> <li>9.4.5.Cl.3: Participate in a brainstorming session with individuals with diverse perspectives to expand one's thinking about a topic of curiosity.</li> <li>9.4.5.Cl.4: Research the development process of a product and identify the role of failure as a part of the creative process.</li> <li>9.4.5.CT.1: Identify and gather relevant data that will aid in the problem-solving process.</li> </ul>		
Diagnostic Assessment:	sment Evidence Summative Assessment:	
<ul> <li>Am I Ready?</li> <li>Formative Assessments: <ul> <li>Summarize</li> <li>Ticket Out the Door</li> <li>Quick Write</li> <li>Sequence</li> <li>Self-Assessment</li> <li>Modeling</li> <li>Send a Problem</li> <li>Think-Pair-Share</li> <li>Turn to Your Partner</li> <li>Talk Math</li> <li>Independent Practice</li> <li>Check My Progress</li> </ul> </li> </ul>	<ul> <li>My Review</li> <li>Reflect</li> <li>Chapter 9 - Assessment</li> <li>Chapter 9 - Performance Task</li> </ul> Benchmark Assessment: <ul> <li>Benchmark Test 3 (covers chapters 7-9)</li> </ul>	
	arning Plan	
Learning Opportunities/Strategies: Chapter Introduction Objective: Use diagnostic resources to determine which level of instruction is needed to help students get ready for the chapter.	Resources:	
<ul> <li>Chapter Introduction:</li> <li>Introduce the chapter by discussing the theme, "Our Oceans".</li> <li>View online video to spark a discussion about how math is used in ocean life.</li> <li>Introduce the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> </ul>	<ul> <li>TE pg. 605</li> <li>TE/SE pg. 605</li> <li>Online Video</li> <li>TE/SE pg. 605</li> </ul>	
<ul> <li>Am I Ready?</li> <li>Complete the "Am I Ready?" assessment to determine if students have the foundational skills they need in order to successfully learn the new skills and concepts presented in this chapter.</li> </ul>	TE/SE pg. 607	
<ul> <li>My Math Words</li> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li>TE/SE pg. 608</li> <li>Review Vocabulary: factors, greatest common factor (GCF), least common multiple (LCM), mixed numbers, multiples</li> </ul>	
My Vocabulary Cards	TE/SE pg. 609-610	

<ul> <li>Introduce vocabulary words and complete "My Vocabulary Cards" activity.</li> </ul>	New Vocabulary: like fractions, unlike fractions
<ul> <li>My Foldable</li> <li>Use this foldable to add like and unlike fractions. Complete the "My Foldable" activities.</li> </ul>	TE/SE pg. 611-612
<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	<ul><li>Online</li><li>Must print letter</li></ul>
<u>Learning Opportunities/Strategies:</u> Lesson 1 - Round Fractions	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will use number lines and benchmark fractions, such as ½, to round fractions.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>TE pg. 613A-B</li> <li>Review Vocabulary: benchmark fraction, number line, round</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 613В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Tell how to round fractions in your own words."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 613-615</li> <li>Assign On Level set: 3-17 (odd), 18, 19</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 616
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 617-618</li> <li>Ticket Out the Door TE pg. 618, index card</li> <li>SE pg. 617-618</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 2 - Add Like Fractions	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will add like fractions and solve word problems involving the addition of like fractions.	

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<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	ТЕ рд. 619А-В
Remind students of the Essential Question: "How	
can equivalent fractions help me add and subtract	
fractions?"	
Developing Vocabulary	<ul> <li>New Vocabulary: like fractions</li> </ul>
<ul> <li>Problem of the Day</li> </ul>	
<b>_</b>	
Build:	ТЕ рд. 619В
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Practice:	TE/SE pg. 619-621
Math in My World	fraction tiles
Guided Practice	
Talk Math	
<ul> <li>Students turn and talk: "Describe a</li> </ul>	
real-world problem that can be solved by	
adding like fractions."	
Independent Practice	<ul> <li>Assign On Level set: 4-14 (even), 15-19</li> </ul>
Anatha	
Apply:     Problem Solving	TE/SE pg. 622
Brain Builders	
Wrap Up:	TE pg. 623-624
Complete formative assessment	• Sequence TE pg. 624
Assign homework	• SE pg. 623-624
Learning Opportunities/Strategies:	Resources:
Lesson 3 - Subtract Like Fractions	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will subtract like fractions and solve	
<b>Objective:</b> Students will subtract like fractions and solve word problems involving the subtraction of like fractions.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 625А-В
• Remind students of the Essential Question: "How	
can equivalent fractions help me add and subtract	
fractions?"	Deview Menchedemy Rive for stress
Developing Vocabulary     Broblem of the Day	Review Vocabulary: like fractions
Problem of the Day	
Build:	ТЕ рд. 625В
Investigate the Math: Explore, Model, Extend	
Practice:	TE/SE pg. 625-627
Math in My World	fraction tiles
Guided Practice	<ul> <li>fraction tiles</li> </ul>
Talk Math	

<ul> <li>Students turn and talk: "Tell about a real-world situation in which you would find 3( 1( ")</li> </ul>	
find ¾ - ¼." ● Independent Practice	• Assign On Level set: 4-16 (even), 17-20
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 628
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE pg. 629-630</b> <ul> <li>Sequence TE pg. 630</li> <li>SE pg. 629-630</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 4 - Hands On - Use Models to Add Unlike Fractions	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will use models to add unlike fractions.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 631А
Build: • Build It	<ul><li>TE/SE pg. 631</li><li>fraction tiles</li></ul>
Practice: • Talk About It • Practice It	<ul> <li>TE/SE pg. 632-633</li> <li>fraction tiles</li> <li>fraction tiles</li> </ul>
Apply: Apply It Write About It	TE/SE pg. 634
Wrap Up: • Assign homework	TE/SE pg. 635-636
Learning Opportunities/Strategies: Lesson 5 - Add Unlike Fractions	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will add unlike fractions and solve word problems involving the addition of unlike fractions.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	ТЕ рд. 637А-В

<ul> <li>Remind students of the Essential Question: "How</li> </ul>	
can equivalent fractions help me add and subtract	
fractions?"	
Developing Vocabulary	<ul> <li>Review Vocabulary: unlike fractions</li> </ul>
<ul> <li>Problem of the Day</li> </ul>	
<b>D</b> -214	
Build:	ТЕ рд. 637В
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Drastian	
Practice:	TE/SE pg. 637-639
<ul> <li>Math in My World</li> <li>Guided Practice</li> </ul>	
<b>—</b> • • • • •	
<ul> <li>Ialk Math         <ul> <li>Students turn and talk: "How can</li> </ul> </li> </ul>	
benchmark fractions and number sense	
be used to check answers for	
reasonableness?"	
Independent Practice	<ul> <li>Assign On Level set: 4-14 (even), 15-19</li> </ul>
	• Assign On Lever set. 4-14 (even), 15-19
Apply:	TE/SE pg. 640
Problem Solving	1 L/OL pg. 040
Brain Builders	
Wrap Up:	TE/SE pg. 641-642
Complete formative assessment	• Quick Write TE pg. 642
Assign homework	• SE pg. 641-642
Learning Opportunities/Strategies:	Resources:
<u>Learning Opportunities/Strategies:</u> Lesson 6 - Hands On - Use Models to Subtract Unlike	Resources: Follow corresponding Lesson Presentation Slides.
	Resources: Follow corresponding Lesson Presentation Slides.
Lesson 6 - Hands On - Use Models to Subtract Unlike	
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions	
Lesson 6 - Hands On - Use Models to Subtract Unlike	
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions Objective: Students will use models to subtract unlike	
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions Objective: Students will use models to subtract unlike	
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions Objective: Students will use models to subtract unlike fractions.	Follow corresponding Lesson Presentation Slides.
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions Objective: Students will use models to subtract unlike fractions. Review Homework: Review homework problems as	Follow corresponding Lesson Presentation Slides.
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions Objective: Students will use models to subtract unlike fractions. Review Homework: Review homework problems as	Follow corresponding Lesson Presentation Slides.
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions Objective: Students will use models to subtract unlike fractions. Review Homework: Review homework problems as needed. Launch: • Remind students of the Essential Question: "How	Follow corresponding Lesson Presentation Slides. Student Homework Page
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Problem of the Day</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build:</li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A TE/SE pg. 645
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Problem of the Day</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Build It</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A TE/SE pg. 645 • fraction tiles
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Build It</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A TE/SE pg. 645 • fraction tiles TE/SE pg. 646-647
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Build It</li> </ul> </li> <li>Practice: <ul> <li>Talk About It</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A TE/SE pg. 645 • fraction tiles TE/SE pg. 646-647 • fraction tiles
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Build It</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A TE/SE pg. 645 • fraction tiles TE/SE pg. 646-647
<ul> <li>Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions</li> <li>Objective: Students will use models to subtract unlike fractions.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Build It</li> </ul> </li> <li>Practice: <ul> <li>Talk About It</li> <li>Practice It</li> </ul> </li> </ul>	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A TE/SE pg. 645 • fraction tiles TE/SE pg. 646-647 • fraction tiles • fraction tiles
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions Objective: Students will use models to subtract unlike fractions. Review Homework: Review homework problems as needed. Launch: • Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?" • Problem of the Day Build: • Build It Practice: • Talk About It • Practice It Apply:	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A TE/SE pg. 645 • fraction tiles TE/SE pg. 646-647 • fraction tiles • fraction tiles TE/SE pg. 648
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions Objective: Students will use models to subtract unlike fractions. Review Homework: Review homework problems as needed. Launch: • Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?" • Problem of the Day Build: • Build It Practice: • Talk About It • Practice It Apply: • Apply It	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A TE/SE pg. 645 • fraction tiles TE/SE pg. 646-647 • fraction tiles • fraction tiles
Lesson 6 - Hands On - Use Models to Subtract Unlike Fractions Objective: Students will use models to subtract unlike fractions. Review Homework: Review homework problems as needed. Launch: • Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?" • Problem of the Day Build: • Build It Practice: • Talk About It • Practice It	Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 645A TE/SE pg. 645 • fraction tiles TE/SE pg. 646-647 • fraction tiles • fraction tiles TE/SE pg. 648

Wrap Up:	TE/SE pg. 649-650
Assign homework	
Learning Opportunities/Strategies: Lesson 7 - Subtract Unlike Fractions	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will subtract unlike fractions and solve word problems involving the subtraction of unlike fractions.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> </ul> </li> </ul>	ТЕ рд. 651А-В
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>Review Vocabulary: least common denominator (LCD)</li> </ul>
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 651В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Describe the steps you can use to find 3/4 - 1/12."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 651-653</li> <li>Assign On Level set: 2-14 (even), 15-18</li> </ul>
<ul> <li>Apply:</li> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 654
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE/SE pg. 655-656</b> <ul> <li>Summarize TE pg. 656</li> <li>SE pg. 655-656</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 8 - Problem-Solving Investigation - Strategy: Determine Reasonable Answers	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will solve problems by determining reasonable answers.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	ТЕ рд. 657А-В

Remind students of the Essential Question: "How	
<ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract</li> </ul>	
fractions?"	
<ul> <li>Problem of the Day</li> </ul>	
Build:	• TE pg. 657B
Prepare	• TE/SE pg. 657
<ul> <li>Learn the Strategy</li> </ul>	
Practice:	
Practice the Strategy	TE/SE pg. 658
Apply:	TE/SE pg. 659-660
Apply the Strategy	
Review the Strategy	
Wrap Up:	TE pg. 661-662
Complete formative assessment	Ticket Out the Door TE pg. 662
Assign homework	• SE pg. 661-662
Learning Opportunities/Strategies:	Resources:
Lesson 9 - Estimate Sums and Differences	Follow corresponding Lesson Presentation Slides.
Objective: Students will use number sense and	
benchmark fractions to estimate sums and differences.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 663А-В
<ul> <li>Remind students of the Essential Question: "How</li> </ul>	· - P3. •••• -
can equivalent fractions help me add and subtract	
fractions?"	
<ul> <li>Developing Vocabulary</li> </ul>	Review Vocabulary: difference, estimate, fraction,
	sum
Problem of the Day	
Build:	ТЕ рд. 663В
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	1 L Pg. 000 L
intestigate are main Explore, model, Excita	
Practice:	TE/SE pg. 663-665
Math in My World	
Guided Practice	
Talk Math	
<ul> <li>Students turn and talk: "Explain how you</li> </ul>	
<ul> <li>would estimate 8 4/7 - 4 2/7."</li> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 9-16 (even), 17-20</li> </ul>
	- Assign On Level set. 9-10 (even), 17-20
Apply:	TE/SE pg. 666
Problem Solving	
Brain Builders	
Wrap Up:	TE/SE pg. 667-668

Complete formative assessment	Think-Pair-Share TE pg. 668
Assign homework	• SE pg. 667-668
Learning Opportunities/Strategies:	Resources:
Lesson 10 - Hands On - Use Models to Add Mixed	Follow corresponding Lesson Presentation Slides.
Numbers	
<b>Objective:</b> Otudente will evalere adding mixed numbers	
<b>Objective:</b> Students will explore adding mixed numbers using models.	
using models.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	TE pg. 671A
<ul> <li>Remind students of the Essential Question: "How</li> </ul>	
can equivalent fractions help me add and subtract	
fractions?"	
Problem of the Day	
Build:	TE/SE pg. 671
Draw It	fraction circles
Practice:	TE/SE pg. 672-673
<ul> <li>Talk About It</li> <li>Practice It</li> </ul>	
Apply:	TE/SE pg. 674
Apply It	fraction circles
Write About It	
Wrap Up:	TE/SE pg. 675-676
Assign homework	
Learning Opportunities/Strategies: Lesson 11 - Add Mixed Numbers	Resources:
Lesson 11 - Add Mixed Numbers	Follow corresponding Lesson Presentation Slides.
Objective: Students will add mixed numbers and solve	
word problems involving the addition of mixed numbers.	
Periou Hemeurette Deview hemeurette mehleme ee	Student Hemowerk Dana
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch:	ТЕ рд. 677А-В
• Remind students of the Essential Question: "How	
can equivalent fractions help me add and subtract fractions?"	
<ul> <li>Developing Vocabulary</li> </ul>	Review Vocabulary: estimate, mixed numbers
<ul> <li>Problem of the Day</li> </ul>	
<b>_</b>	
Build:	ТЕ рд. 677В
Investigate the Math: Explore, Model, Extend	
Practice:	TE/SE pg. 677-679

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Math in My World	
Guided Practice	
• Talk Math	
<ul> <li>Students turn and talk: "Explain how to</li> </ul>	
simplify 3 6/4."	
Independent Practice	<ul> <li>Assign On Level set: 2-14 (even), 15-18</li> </ul>
Apply	TE/SE pg. 680
Problem Solving	12/32 pg. 660
Brain Builders	
Wrap Up:	TE/SE pg. 681-682
Complete formative assessment	<ul> <li>Ticket Out the Door TE pg. 681</li> </ul>
Assign homework	• SE pg. 681-682
Learning Opportunities/Strategies:	Resources:
Lesson 12 - Subtract Mixed Numbers	Follow corresponding Lesson Presentation Slides.
Objective: Students will subtract mixed numbers and	
solve word problems involving the subtraction of mixed	
numbers.	
<b>Review Homework:</b> Review homework problems as	Student Homework Page
needed.	
Launch:	TE ng 6024 B
<ul> <li>Remind students of the Essential Question: "How</li> </ul>	ТЕ рд. 683А-В
can equivalent fractions help me add and subtract	
fractions?"	
Developing Vocabulary	Review Vocabulary: mixed numbers
<ul> <li>Problem of the Day</li> </ul>	······································
,	
Build:	TE pg. 683B
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Practice:	TE/SE pg. 683-685
Math in My World	<ul> <li>fraction tiles</li> </ul>
Guided Practice	fraction tiles
• Talk Math	
• Students turn and talk: "Describe the	
steps you would take to find 3 5% - 2 3%."	Apping On Louis Look (144 (aux)) 45 40
Independent Practice	<ul> <li>Assign On Level set: 4-14 (even), 15-19</li> </ul>
Apply:	TE/SE pg. 686
Problem Solving	1 L/OL Pg. 000
Brain Builders	
Wrap Up:	TE/SE pg. 687-688
Complete formative assessment	• Turn to Your Partner TE pg. 688
Assign homework	• SE pg. 687-688
Learning Opportunities/Strategies:	Resources:
Lesson 13 - Subtract with Renaming	Follow corresponding Lesson Presentation Slides.

<b>Objective:</b> Students will use fraction equivalence to subtract with renaming.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> </ul> </li> </ul>	ТЕ рд. 689А-В
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	<ul> <li>Review Vocabulary: rename</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 689В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Describe the steps you would use to find 3 2/7 - 1 4/7."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 689-691</li> <li>fraction tiles</li> <li>Assign On Level set: 2-14 (even), 15-18</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 692
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE/SE pg. 693-694</li> <li>Ticket Out the Door TE pg. 694</li> <li>SE pg. 693-694</li> </ul>
Learning Opportunities/Strategies: Chapter 9 - Review and Reflect	Resources:
<b>Objective:</b> Assess students' understanding of the vocabulary and key concepts in this chapter.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Essential Question:</li> <li>Remind students of the Essential Question: "How can equivalent fractions help me add and subtract fractions?"</li> </ul>	
Review: • Vocabulary Check • Concept Check • Problem Solving • Brain Builders	TE/SE pg. 695-697

Reflect:		TE/SE pg. 698	
Assign homework:		n/a	
Differentiation *Please note: To refer to Struggling and/or Spa			ricular accommodations are
High-Achieving Students	On Grade Level Students	Struggling Students	Special Needs/ELL
<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "Beyond Level"</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> </ul> </li> <li>Utilize the McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "On Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul> </li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> </ul> </li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> </ul> </li> </ul>

Utilize the McGraw     Hill English	• Utilize the McGraw Hill English
Language Learner Guide to provide	Language Learner Guide to provide
	foundational support
	<ul> <li>Specific use of modalities -</li> </ul>
	kinesthetic, visual,
	auditory, tactile
	The multilingual
	eGlossary can support vocabulary
	Learning Station
	<ul> <li>My Learning</li> </ul>
	Station student-led
	activity

#### Chapter 10: Multiply and Divide Fractions

### **Stage 1: Desired Results**

#### Standards & Indicators:

#### **NJSLS for Mathematics**

- **5.NF.4** Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.
- **5.NF.4a** Interpret the product (a/b) × q as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations a × q ÷ b. For example, use a visual fraction model to show (2/3) × 4 = 8/3, and create a story context for this equation. Do the same with (2/3) × (4/5) = 8/15. (In general, (a/b) × (c/d) = ac/bd.)
- **5.NF.4b** Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.
- **5.NF.5a** Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.
- **5.NF.6** Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.
- **5.NF.7a** Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. For example, create a story context for  $(1/3) \div 4$ , and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that  $(1/3) \div 4 = 1/12$  because  $(1/12) \times 4 = 1/3$ .
- 5.NF.7b Interpret division of a whole number by a unit fraction, and compute such quotients. For example, create a story context for 4 ÷ (1/5), and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that 4 ÷ (1/5) = 20 because 20 × (1/5) = 4.
- **5.NF.7c** Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. For example, how much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 1/3-cup servings are in 2 cups of raisins?

#### **NJSLS for Mathematical Practice**

- **1.** Make sense of problems and persevere in solving them.
- **2.** Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.

<ul> <li>4 Model with mathematics.</li> <li>5 Use appropriate tools strategically.</li> <li>6 Attend to precision.</li> </ul>	
<ul> <li>7 Look for and make use of structure.</li> <li><u>Central Idea / Enduring Understanding</u>: Students will</li> <li>multiply a whole number and a fraction.</li> <li>multiply fractions.</li> <li>multiply fractions without using models.</li> <li>solve word problems involving mixed numbers.</li> <li>divide a whole number by a unit fraction.</li> </ul>	<ul> <li>Essential/Guiding Question:</li> <li>What strategies can be used to multiply and divide fractions?</li> </ul>
<ul> <li>Content:</li> <li>Hands On: Part of a Number</li> <li>Estimate Products of Fractions</li> <li>Hands On: Model Fraction Multiplication</li> <li>Multiply Whole Numbers and Fractions</li> <li>Hands On: Use Models to Multiply Fractions</li> <li>Multiply Fractions</li> <li>Multiply Mixed Numbers</li> <li>Hands On: Multiplication as Scaling</li> <li>Hands On: Division with Unit Fractions</li> <li>Divide Whole Numbers by Unit Fractions</li> <li>Divide Unit Fractions by Whole Numbers</li> <li>Problem-Solving Investigation: Draw a Diagram</li> </ul>	<ul> <li>Skills (Objectives):</li> <li>Explore how to find part of a number.</li> <li>Estimate products of fractions using compatible numbers and rounding.</li> <li>Explore multiplying whole numbers and fractions using models.</li> <li>Multiply whole numbers and fractions.</li> <li>Explore using models to multiply a fraction by a fraction.</li> <li>Multiply fractions.</li> <li>Multiply mixed numbers.</li> <li>Interpret multiplication of fractions using models.</li> <li>Divide whole numbers by unit fractions using models.</li> <li>Use bar diagrams to divide whole numbers by unit fractions.</li> <li>Use bar diagrams to divide unit fractions by whole numbers.</li> <li>Solve problems by drawing a diagram.</li> </ul>

#### Interdisciplinary Connection(s):

#### NJSLS for Literacy

- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- **SL.ES.5.3.** Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

#### **NJSLS for Social Studies**

• 6.1.5.HistoryUP.7: Describe why it is important to understand the perspectives of other cultures in an

and the United States (e.g., energy, transportation, communications).

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6.1.5.GeoHE.2: Cite examples of how technological advances have changed the environment in New Jersey

interconnected world. • 6.1.5.CivicsHR.4: Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions. **NJSLS for Science** 3-5-ETS1-2 - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. NJSLS for Career Readiness, Life Literacies, and Key Skills 9.2.5.CAP.1: Evaluate personal likes and dislikes and identify careers that might be suited to personal likes. 9.4.5.Cl.3: Participate in a brainstorming session with individuals with diverse perspectives to expand one's • thinking about a topic of curiosity. Stage 2: Assessment Evidence **Diagnostic Assessment: Summative Assessment:** • Am I Ready? My Review Reflect • Formative Assessments: Chapter 10 - Assessment • **Quick Write** Chapter 10 - Performance Task Turn to Your Partner • • Application Cards **Benchmark Assessment:** Sequence n/a • • Analogy Send a Problem • Modelina • Summarize • Ticket Out the Door Talk Math • Independent Practice • Check My Progress • Stage 3: Learning Plan Learning Opportunities/Strategies: **Resources:** Chapter Introduction **Objective:** Use diagnostic resources to determine which level of instruction is needed to help students get ready for the chapter. **Chapter Introduction:** TE pg. 699 Introduce the chapter by discussing the theme, "In TE/SE pg. 699 • My Kitchen". • View online video to spark a discussion about Online Video how math is used in kitchens. Introduce the Essential Question: "What TE/SE pg. 699 • strategies can be used to multiply and divide fractions?" TE/SE pg. 701 Am I Ready?

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<ul> <li>Complete the "Am I Ready?" assessment to determine if students have the foundational skills they need in order to successfully learn the new skills and concepts presented in this chapter.</li> </ul>	
<ul> <li>My Math Words</li> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li><b>TE/SE pg. 702</b> <ul> <li>Review Vocabulary: decimal point, denominator, digit, divide, equivalent, greatest common factor (GCF), least common multiple (LCM), mixed numbers, multiply, number line</li> </ul> </li> </ul>
<ul> <li>My Vocabulary Cards</li> <li>Introduce vocabulary words and complete "My Vocabulary Cards" activity.</li> </ul>	<ul> <li>TE/SE pg. 703-704</li> <li>New Vocabulary: scaling, unit fraction</li> </ul>
<ul> <li>My Foldable</li> <li>Use this foldable to multiply fractions and mixed numbers by whole numbers. Complete the "My Foldable" activities.</li> </ul>	TE/SE pg. 705-706
<ul> <li>Wrap Up</li> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	<ul><li>Online</li><li>Must print letter</li></ul>
<u>Learning Opportunities/Strategies:</u> Lesson 1 - Hands On - Parts of a Number	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will explore how to find part of a number.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 707А
Build: • Draw It	TE/SE pg. 707 • bar diagrams
Practice: • Talk About It • Practice It	<ul> <li>TE/SE pg. 708-709</li> <li>bar diagrams</li> <li>bar diagrams</li> </ul>
Apply: • Apply It • Write About It	<ul><li>TE/SE pg. 710</li><li>bar diagrams</li></ul>
Wrap Up: • Assign homework	TE/SE pg. 711-712

Learning Opportunities/Strategies:	Resources:
Lesson 2 - Estimate Products of Fractions	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will estimate products of fractions	
using compatible numbers and rounding.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 713А-В
Remind students of the Essential Question: "What	
strategies can be used to multiply and divide	
fractions?"	
Developing Vocabulary	Review Vocabulary: decimal, fraction
Problem of the Day	
Build	TE ng 712P
Build:	ТЕ рд. 713В
Investigate the Math: Explore, Model, Extend	
Practice:	TE/SE pg. 713-715
<ul> <li>Math in My World</li> <li>Guided Practice</li> </ul>	<ul> <li>bar diagrams, number lines</li> </ul>
Talk Math	
<ul> <li>Students turn and talk: "Explain how you</li> </ul>	
would estimate the product of $\frac{4}{5} \times \frac{5}{6}$ ."	
<ul> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 2-14 (even), 15-17</li> </ul>
Apply:	TE/SE pg. 716
Problem Solving	
Brain Builders	
8	
8	TE pg. 717-718
Brain Builders	<b>TE pg. 717-718</b> • Turn to Your Partner TE pg. 718
Brain Builders Wrap Up:	
<ul> <li>Brain Builders</li> <li>Wrap Up:</li> <li>Complete formative assessment</li> </ul>	Turn to Your Partner TE pg. 718
<ul> <li>Brain Builders</li> <li>Wrap Up:</li> <li>Complete formative assessment</li> </ul>	Turn to Your Partner TE pg. 718
<ul> <li>Brain Builders</li> <li>Wrap Up: <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 3 - Hands On - Model Fraction Multiplication</li> <li>Objective: Students will explore multiplying whole</li> </ul> </li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> <li>Objective: Students will explore multiplying whole numbers and fractions using models.</li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> <li>Resources: Follow corresponding Lesson Presentation Slides.</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Leasson 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> <li>Objective: Students will explore multiplying whole numbers and fractions using models.</li> <li>Review Homework: Review homework problems as</li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> <li>Objective: Students will explore multiplying whole numbers and fractions using models.</li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> <li>Resources: Follow corresponding Lesson Presentation Slides.</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Leason 3 - Hands On - Model Fraction Multiplication</li> </ul>         Objective: Students will explore multiplying whole numbers and fractions using models.</li> </ul> <li>Review Homework: Review homework problems as needed.</li>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> <li>Resources: Follow corresponding Lesson Presentation Slides.</li> <li>Student Homework Page</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Leason 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> <li>Objective: Students will explore multiplying whole numbers and fractions using models.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:</li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> <li>Resources: Follow corresponding Lesson Presentation Slides.</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Leason 3 - Hands On - Model Fraction Multiplication</li> </ul>         Objective: Students will explore multiplying whole numbers and fractions using models.</li> </ul> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What</li> </ul> </li>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> <li>Resources: Follow corresponding Lesson Presentation Slides.</li> <li>Student Homework Page</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Leason 3 - Hands On - Model Fraction Multiplication</li> </ul>         Objective: Students will explore multiplying whole numbers and fractions using models.</li> </ul> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide</li> </ul> </li>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> <li>Resources: Follow corresponding Lesson Presentation Slides.</li> <li>Student Homework Page</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Learning Opportunities/Strategies:</li> <li>Lesson 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> <li>Objective: Students will explore multiplying whole numbers and fractions using models.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> </ul> </li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> <li>Resources: Follow corresponding Lesson Presentation Slides.</li> <li>Student Homework Page</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Leason 3 - Hands On - Model Fraction Multiplication</li> </ul>         Objective: Students will explore multiplying whole numbers and fractions using models.</li> </ul> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide</li> </ul> </li>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> <li>Resources: Follow corresponding Lesson Presentation Slides.</li> <li>Student Homework Page</li> </ul>
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Learning Opportunities/Strategies:</li> <li>Lesson 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> <li>Objective: Students will explore multiplying whole numbers and fractions using models.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul> </li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> </ul> Resources: Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 719A
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Learning Opportunities/Strategies:</li> <li>Lesson 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> <li>Objective: Students will explore multiplying whole numbers and fractions using models.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:             <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"             <li>Problem of the Day</li> </li></ul> </li> <li>Build:</li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> </ul> Resources: Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 719A TE/SE pg. 719
<ul> <li>Brain Builders</li> <li>Wrap Up:         <ul> <li>Complete formative assessment</li> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Learning Opportunities/Strategies:</li> <li>Lesson 3 - Hands On - Model Fraction Multiplication</li> </ul> </li> <li>Objective: Students will explore multiplying whole numbers and fractions using models.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul> </li> </ul>	<ul> <li>Turn to Your Partner TE pg. 718</li> <li>SE pg. 717-718</li> </ul> Resources: Follow corresponding Lesson Presentation Slides. Student Homework Page TE pg. 719A

Practice:	TE/SE pg. 720-721
Talk About It	1E/SE pg. 720-721
Practice It	
Apply:	TE/SE pg. 722
Apply It	
Write About It	
Wrap Up:	TE/SE pg. 723-724
Assign homework	
,	
Learning Opportunities/Strategies:	Resources:
Lesson 4 - Multiply Whole Numbers and Fractions	Follow corresponding Lesson Presentation Slides.
Objective: Students will multiply whole numbers and	
fractions.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 725А-В
Remind students of the Essential Question: "What	ТЕ ру. 725А-В
strategies can be used to multiply and divide	
fractions?"	
Developing Vocabulary	<ul> <li>Review Vocabulary: Commutative Property,</li> </ul>
	fraction
Problem of the Day	
Build:	TE pg. 725B
Investigate the Math: Explore, Model, Extend	
Practice:	TE/SE pg. 725-727
Math in My World	fraction tiles
Guided Practice     Talk Math	
<ul> <li>Talk Math         <ul> <li>Students turn and talk: "Explain how you</li> </ul> </li> </ul>	
could find the product of 50 and $\frac{2}{3}$	
mentally."	
Independent Practice	<ul> <li>Assign On Level set: 2-14 (even), 15-18</li> </ul>
Annaha	
Apply:	TE/SE pg. 728
<ul><li>Problem Solving</li><li>Brain Builders</li></ul>	
Wrap Up:	TE pg. 729-730
Complete formative assessment	Quick Write TE pg. 730
Assign homework	• SE pg. 729-730
Learning Opportunities/Strategies:	Resources:
Lesson 5 - Hands On - Use Models to Multiply	Follow corresponding Lesson Presentation Slides.
Fractions	

<b>Objective:</b> Students will explore using models to multiply	
a fraction by a fraction.	
Review Homework: Review homework problems as	Student Homework Page
needed.	Student nomework r age
Launch:	ТЕ рд. 733А
Remind students of the Essential Question: "What	
strategies can be used to multiply and divide	
fractions?"	
Problem of the Day	
Build:	TE/SE pg. 733
Draw It	<ul> <li>crayons or colored pencils</li> </ul>
Presting	
Practice:	TE/SE pg. 734-735
<ul> <li>Talk About It</li> <li>Practice It</li> </ul>	
Practice It	
Apply:	TE/SE pg. 736
Apply It	
Write About It	
Wrap Up:	TE/SE pg. 737-738
Assign homework	
Learning Opportunities/Strategies:	Resources:
Lesson 6 - Multiply Fractions	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will multiply fractions.	
<b>Review Homework:</b> Review homework problems as	Student Homowork Dage
needed.	Student Homework Page
Launch:	ТЕ рд. 739А-В
Remind students of the Essential Question: "What	12 pg. 1001 D
strategies can be used to multiply and divide	
fractions?"	
Developing Vocabulary	Review Vocabulary: denominator, multiply,
	numerator
Problem of the Day	
Build:	ТЕ рд. 739В
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Practice:	TE/SE pg. 739-741
Math in My World	1 LIOE PG. 133-141
Guided Practice	
Talk Math	
<ul> <li>Students turn and talk: "Will the product</li> </ul>	
of $2/9 \times 1/3$ be the same as the product of	
2/9 x 2/6? Explain."	
Independent Practice	<ul> <li>Assign On Level set: 2-14 (even), 15-17</li> </ul>

Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 742	
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE pg. 743-744</b> <ul> <li>Turn to Your Partner TE pg. 744</li> <li>SE pg. 743-744</li> </ul>	
<u>Learning Opportunities/Strategies:</u> Lesson 7 - Multiply Mixed Numbers	Resources: Follow corresponding Lesson Presentation Slides.	
Objective: Students will multiply mixed numbers.		
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page	
<ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> </ul>	ТЕ рд. 745А-В	
Developing Vocabulary	<ul> <li>Review Vocabulary: improper fraction, mixed number</li> </ul>	
<ul> <li>Problem of the Day</li> <li>Build: <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> </ul>	ТЕ рд. 745В	
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain how to find the product of two mixed numbers."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 745-747</li> <li>Assign On Level set: 2-14 (even), 15-18</li> </ul>	
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 748	
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE/SE pg. 749-750</b> <ul> <li>Sequence TE pg. 750</li> <li>SE pg. 749-750</li> </ul>	
<u>Learning Opportunities/Strategies:</u> Lesson 8 - Hands On - Multiplication as Scaling	Resources: Follow corresponding Lesson Presentation Slides.	
<b>Objective:</b> Students will interpret multiplication of fractions as scaling.		
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page	

Launch:	TE pg. 751A
<ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>New vocabulary: scaling</li> </ul>
Build: • Draw It	<ul><li>TE/SE pg. 751</li><li>number line</li></ul>
Practice: <ul> <li>Talk About It</li> <li>Practice It</li> </ul>	<ul> <li>TE/SE pg. 752-753</li> <li>number line</li> <li>number line</li> </ul>
Apply: • Apply It • Write About It	<ul><li>TE/SE pg. 754</li><li>number line</li></ul>
Wrap Up: • Assign homework	TE/SE pg. 755-756
<u>Learning Opportunities/Strategies:</u> Lesson 9 - Hands On - Division with Unit Fractions	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will divide whole numbers by unit fractions using models.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 759А
Build: • Build It	<ul><li>TE/SE pg. 759</li><li>fraction tiles</li></ul>
Practice: • Talk About It • Practice It	<ul> <li>TE/SE pg. 760-761</li> <li>fraction tiles</li> <li>fraction tiles</li> </ul>
Apply: • Apply It • Write About It	<ul><li>TE/SE pg. 762</li><li>fraction tiles</li></ul>
Wrap Up: • Assign homework	TE/SE pg. 763-764
<u>Learning Opportunities/Strategies:</u> Lesson 10 - Divide Whole Numbers by Unit Fractions	Resources: Follow corresponding Lesson Presentation Slides.

Objective: Students will use bar diagrams to divide whole		
numbers by unit fractions.		
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page	
<ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> </ul>	ТЕ рд. 765А-В	
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>New Vocabulary: unit fraction</li> </ul>	
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 765В	
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Why can you use multiplication to check your answer to a division problem?"</li> </ul> </li> </ul>	TE/SE pg. 765-767	
<ul> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 2-8 (even), 9-12</li> </ul>	
Apply: Problem Solving Brain Builders	TE/SE pg. 768 TE pg. 769-770	
<b>Climate Change Opportunity</b> To examine the impact corn distribution has on agriculture. Students may solve real-world problems about the distribution of corn that involve the division of whole numbers by unit fractions.	<ol> <li>Climate Change Example:         <ol> <li>In the year 1990, Roy collected 8 tons of corn to sell. He splits his crops into thirds to sell to the local grocery stores. How much corn does each grocery store get? Use math tools.</li> <li>In the year 2020, due to poor growing conditions Roy only collects 2 tons of corn to sell. If he still splits his crops into thirds to sell again, how much corn does each grocery store get now? Use math tools.</li> </ol> </li> </ol>	
<ul> <li>Wrap Up:</li> <li>Formative Assessment</li> <li>Assign homework</li> </ul>	<ul> <li>Ticket Out the Door TE pg. 770</li> <li>SE pg. 769-770</li> </ul>	
<u>Learning Opportunities/Strategies:</u> Lesson 11 - Divide Unit Fractions by Whole Numbers	Resources: Follow corresponding Lesson Presentation Slides.	
<b>Objective:</b> Students will use bar diagrams to divide unit fractions by whole numbers.		
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page	
Launch:	ТЕ рд. 771А-В	

<ul> <li>Remind students of the Essential Question: "What</li> </ul>	
<ul><li>strategies can be used to multiply and divide fractions?"</li><li>Developing Vocabulary</li></ul>	Review Vocabulary: unit fraction
<ul> <li>Problem of the Day</li> </ul>	
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	TE pg. 771B
Practice: • Math in My World • Guided Practice • Talk Math	TE/SE pg. 771-773
<ul> <li>Students turn and talk: "What multiplication equation can you use to check your answer to Example 2? Explain."</li> </ul>	
Independent Practice	<ul> <li>Assign On Level set: 2-8 (even), 9-12</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 774
Wrap Up:	TE/SE pg. 775-776
Complete formative assessment	<ul> <li>Modeling TE pg. 776</li> </ul>
<ul> <li>Assign homework</li> </ul>	<ul> <li>SE pg. 775-776</li> </ul>
Learning Opportunities/Strategies: Lesson 12 - Problem-Solving Investigation - Strategy: Draw a Diagram	Resources: Follow corresponding Lesson Presentation Slides.
<b>Ohio stives</b> Ohudan ta will a shus mash lansa hu dhawin na s	
<b>Objective:</b> Students will solve problems by drawing a diagram.	
	Student Homework Page
diagram. <b>Review Homework:</b> Review homework problems as needed.	
diagram. <b>Review Homework:</b> Review homework problems as	Student Homework Page TE pg. 777A-B
<ul> <li>diagram.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul> </li> </ul>	
<ul> <li>diagram.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build:</li> </ul>	ТЕ рд. 777А-В
<ul> <li>diagram.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Prepare</li> </ul> </li> </ul>	<b>ТЕ рд. 777А-В</b>
<ul> <li>diagram.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build:</li> </ul>	ТЕ рд. 777А-В
<ul> <li>diagram.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Prepare</li> <li>Learn the Strategy</li> </ul> </li> <li>Practice: <ul> <li>Practice the Strategy</li> </ul> </li> </ul>	TE pg. 777A-B • TE pg. 777B • TE/SE pg. 777 TE/SE pg. 778
<ul> <li>diagram.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Prepare</li> <li>Learn the Strategy</li> </ul> </li> <li>Practice: <ul> <li>Practice the Strategy</li> </ul> </li> </ul>	ТЕ рд. 777А-В • ТЕ рд. 777В • ТЕ/SE рд. 777
<ul> <li>diagram.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "What strategies can be used to multiply and divide fractions?"</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Prepare</li> <li>Learn the Strategy</li> </ul> </li> <li>Practice: <ul> <li>Practice the Strategy</li> </ul> </li> </ul>	TE pg. 777A-B • TE pg. 777B • TE/SE pg. 777 TE/SE pg. 778

Wrap Up:		TE pg. 781-782		
Complete formative assessment		Ticket Out the Door	ГЕ рд. 782	
•	Assign homework		• SE pg. 781-782	
Learning Opportunities/Strategies:		Resources:		
	er 10 - Review and Refle			
•				
	tive: Assess students' un			
vocabi	ulary and key concepts in	this chapter.		
Review	w Homework: Review ho	mework problems as	Student Homework Page	
neede			etaaont nomenen i uge	
_				
	itial Question:			
•	strategies can be used	Essential Question: "What		
	fractions?"			
Review			TE/SE pg. 783-785	
•	Vocabulary Check			
•	Concept Check Problem Solving			
•	Brain Builders			
Reflec	st:		TE/SE pg. 786	
Accia	n homework:		n/a	
Assig	II IIOIIIEWOIK.		1// 4	
			with 504 plans that require cur	ricular accommodations are
		ecial Needs Section for differ		
High	n-Achieving Students	On Grade Level Students	Struggling Students	Special Needs/ELL
Small	Group	Small Group	Small Group	Small Group
•	Utilize gradual	<ul> <li>Utilize gradual</li> </ul>	Specific use of	Specific use of
	release model	release model	modalities -	modalities -
•	Modify problem set to	<ul> <li>Modify problem</li> </ul>	kinesthetic, visual,	kinesthetic, visual,
	"Beyond Level"	set to "On Level"	auditory, tactile	auditory, tactile
•	Focus on critical	Utilize "Reteach"	<ul> <li>Utilize gradual release model</li> </ul>	<ul> <li>Utilize gradual release model</li> </ul>
	thinking questions at the end of the lesson.	problem-set to model questions.	<ul> <li>Modify problem set</li> </ul>	<ul> <li>Modify problem set</li> </ul>
Techno		<ul> <li>Focus on critical</li> </ul>	to "Approaching	to "Approaching
•	Participate in RedBird	thinking	Level"	Level"
	Math individualized	questions at the	<ul> <li>Utilize "Reteach"</li> </ul>	<ul> <li>Utilize "Reteach"</li> </ul>
	learning path	end of the	problem-set to	problem-set to
•	Participate in Reflex	lesson.	model questions.	model questions.
	Math individualized learning path	Technology Participate in	<ul> <li>Focus on critical thinking questions</li> </ul>	<ul> <li>Focus on critical thinking questions</li> </ul>
•	Utilize McGraw Hill	Participate in RedBird Math	at the end of the	thinking questions at the end of the
	eTools for online	individualized	lesson.	lesson.
	manipulative support	learning path	<ul> <li>Pair with on grade</li> </ul>	<ul> <li>Pair with on grade</li> </ul>
•	manipulative support Utilize McGraw Hill Personal Tutor to	<ul> <li>Participate in Reflex Math</li> </ul>	Pair with on grade     level or     higher-achieving	<ul> <li>Fail with on grade level or higher-achieving</li> </ul>

demonstrate a	individualized	students to	students to
model/sample	learning path	problem solve	problem solve
Utilize McGraw Hill	Utilize McGraw	Technology	Technology
online lesson	Hill eTools for	Participate in	Participate in
animations to	online	RedBird Math	RedBird Math
demonstrate a	manipulative	individualized	individualized
model/sample	support	learning path	learning path
<ul> <li>Utilize the McGraw</li> </ul>	<ul> <li>Utilize McGraw</li> </ul>	<ul> <li>Participate in</li> </ul>	<ul> <li>Participate in</li> </ul>
Hill English Language	Hill Personal	Reflex Math	Reflex Math
Learner Guide to	Tutor to	individualized	individualized
provide	demonstrate a	learning path	learning path
	model/sample	<ul> <li>Utilize McGraw Hill</li> </ul>	<ul> <li>Utilize McGraw Hill</li> </ul>
	<ul> <li>Utilize McGraw</li> </ul>	eTools for online	eTools for online
	Hill online lesson	manipulative	manipulative
	animations to	support	support
	demonstrate a	<ul> <li>Utilize McGraw Hill</li> </ul>	<ul> <li>Utilize McGraw Hill</li> </ul>
	model/sample	Personal Tutor to	Personal Tutor to
	<ul> <li>Utilize the</li> </ul>	demonstrate a	demonstrate a
	McGraw Hill	model/sample	model/sample
	English	Utilize McGraw Hill	<ul> <li>Utilize McGraw Hill</li> </ul>
	Language	online lesson	online lesson
	Learner Guide to	animations to	animations to
	provide	demonstrate a	demonstrate a
		model/sample	model/sample
		<ul> <li>Utilize the McGraw</li> </ul>	<ul> <li>Utilize the McGraw</li> </ul>
		Hill English	Hill English
		Language Learner	Language Learner
		Guide to provide	Guide to provide
			foundational
			support
			<ul> <li>Specific use of</li> </ul>
			modalities -
			kinesthetic, visual,
			auditory, tactile
			The multilingual
			eGlossary can
			support vocabulary
			Learning Station
			My Learning
			Station student-led
			activity

# Chapter 11: Measurement Stage 1: Desired Results Standards & Indicators:

#### **NJSLS for Mathematics**

- **5.M.1** Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.
- **5.DL.5** Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots. For

<ul> <li>example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.</li> <li><b>5.DL.2</b>-Develop strategies to collect, organize and represent data of various types and from various sources. Communicate results digitally through a data visual (e.g. chart, storyboard, video presentation).</li> <li><b>5.DL.3</b>- Collect and clean data to be analyzable (e.g. make sure each entry is formatted correctly, deal with missing or incomplete data).</li> </ul>		
NJSLS for Mathematical Practice         • 1 Make sense of problems and persevere in solving them.         • 2 Reason abstractly and quantitatively.         • 3 Construct viable arguments and critique the reasoning of others.         • 4 Model with mathematics.         • 5 Use appropriate tools strategically.         • 6 Attend to precision.         • 7 Look for and make use of structure.         • 8 Look for and express regularity in repeated reasoning.         Central Idea / Enduring Understanding:         Students will         • convert customary units of length.         • convert customary units of structure.         • convert customary units of capacity.         • use a line plot to represent measurement data.		
convert customary units of capacity.		

#### NJSLS for Literacy

• L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.

- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- SL.ES.5.3. Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- **SL.AS.5.6.** Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

#### **NJSLS for Social Studies**

- **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).
- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

#### NJSLS for Science

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

#### NJSLS for Career Readiness, Life Literacies, and Key Skills

- 9.2.5.CAP.1: Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.
- **9.4.5.CT.1**: Identify and gather relevant data that will aid in the problem-solving process.
- 9.4.5.IML.2: Create a visual representation to organize information about a problem or issue.

Stage 2:	Assessment Evidence
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Diagnostic Assessment:	Summative Assessment:	
Am I Ready?	My Review	
	Reflect	
Formative Assessments:	<ul> <li>Chapter 11 - Assessment</li> </ul>	
Quick Write	<ul> <li>Chapter 11 - Performance Task</li> </ul>	
Error Analysis		
Sequence	Benchmark Assessment:	
Ticket Out the Door	● n/a	
Written Reflections		
Summarize		
Debriefing		
<ul> <li>Self-Assessment</li> </ul>		
Talk Math		
Independent Practice		
Check My Progress		
Stage 3: Learning Plan		
Learning Opportunities/Strategies:	Resources:	
Chapter Introduction		

<b>Objective:</b> Use diagnostic resources to determine which	
level of instruction is needed to help students get ready	
for the chapter.	
Chapter Introduction:	TE pg. 787
<ul> <li>Introduce the chapter by discussing the theme,</li> </ul>	• TE/SE pg. 787
"My Favorite Animals".	
<ul> <li>View online video to spark a discussion about</li> </ul>	Online Video
how math is used in animal life.	
<ul> <li>Introduce the Essential Question: "How can I use</li> </ul>	• TE/SE pg. 787
measurement conversions to solve real-world	
problems?"	
•	
Am I Ready?	TE/SE pg. 789
<ul> <li>Complete the "Am I Ready?" assessment to</li> </ul>	
determine if students have the foundational skills	
they need in order to successfully learn the new	
skills and concepts presented in this chapter.	
My Moth Words	TE/SE ng. 700
My Math Words	TE/SE pg. 790
<ul> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li>Review Vocabulary: capacity, length, estimate, weight</li> </ul>
Words activity.	weight
My Vocabulary Cards	TE/SE pg. 791-798
<ul> <li>Introduce vocabulary words and complete "My</li> </ul>	New Vocabulary: capacity, centimeter, convert,
Vocabulary Cards" activity.	cup, customary system, fair share, fluid ounce,
	foot, gallon, gram, inch, kilogram, kilometer,
	length, mass, meter, metric system, mile,
	milligram, milliliter, millimeter, ounce, pint, pound,
	quart, ton, weight, yard
My Foldable	TE/SE pg. 799-800
<ul> <li>This foldable compares capacity using gallons,</li> </ul>	
quarts, pints, and cups. Complete the "My	
Foldable" activities.	
Muse II.	Online
Wrap Up	Online
<ul> <li>Math at Home: Family Letter - Student signs it and presents it to parents/guardians.</li> </ul>	Must print letter
and presents it to parents/guardians.	
Learning Opportunities/Strategies:	Resources:
Lesson 1 - Hands On - Measure with a Ruler	Follow corresponding Lesson Presentation Slides.
Objective: Students will measure length to the nearest	
half-inch and quarter-inch.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Levente	TE
Launch:	TE pg. 801A
Remind students of the Essential Question: "How	
can I use measurement conversions to solve	
real-world problems?"	

<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	New Vocabulary: inch (in.), length
Build: • Measure It	<ul> <li>TE/SE pg. 801</li> <li>inch rulers, large paper clips</li> </ul>
Practice: • Talk About It • Practice It	<ul> <li>TE/SE pg. 802-803</li> <li>inch rulers, large paper clips</li> <li>inch rulers, large paper clips</li> </ul>
Apply: • Apply It • Write About It	<ul> <li>TE/SE pg. 804</li> <li>inch rulers</li> </ul>
Wrap Up: • Assign homework	TE/SE pg. 805-806
<u>Learning Opportunities/Strategies:</u> Lesson 2 - Convert Customary Units of Length	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will convert measurements of length within the customary system.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real-world problems?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>TE pg. 807A-B</li> <li>New Vocabulary: convert, mile (mi), yard (yd), customary system, foot (ft), inch (in.)</li> </ul>
Build: • Investigate the Math: Explore, Model, Extend	ТЕ рд. 807В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain how to convert units from feet to inches."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 807-809</li> <li>bar diagrams, number lines</li> <li>Assign On Level set: 4-18 (even), 19-23</li> </ul>
Apply: • Problem Solving • Brain Builders	TE/SE pg. 810
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 811-812</li> <li>Error Analysis TE pg. 812</li> <li>SE pg. 811-812</li> </ul>

Learning Opportunities/Strategies: Lesson 3 - Problem-Solving Investigation - Strategy: Use Logical Reasoning	<b><u>Resources:</u></b> Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will solve problems by using logical reasoning.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real-world problems?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 813А-В
Build: • Prepare • Learn the Strategy	<ul> <li>TE pg. 813B</li> <li>TE/SE pg. 813</li> </ul>
<ul><li>Practice:</li><li>Practice the Strategy</li></ul>	TE/SE pg. 814
<ul> <li>Apply:</li> <li>Apply the Strategy</li> <li>Review the Strategy</li> </ul>	TE/SE pg. 815-816
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 817-818</li> <li>Ticket Out the Door TE pg. 818</li> <li>SE pg. 817-818</li> </ul>
Learning Opportunities/Strategies: Lesson 4 - Hands On - Estimate and Measure Weight	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will estimate the weight of objects and use a balance to measure the weight of objects.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real world methods?"</li> </ul>	ТЕ рд. 819А
<ul> <li>real-world problems?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>New Vocabulary: ounce (oz), pound (lb), weight</li> </ul>
Build: • Measure It	<ul> <li>TE/SE pg. 819</li> <li>balance, ounce and pound weights</li> </ul>
Practice: • Talk About It • Practice It	<ul> <li>TE/SE pg. 820-821</li> <li>balance, ounce and pound weights</li> <li>balance, ounce and pound weights</li> </ul>

Apply: <ul> <li>Apply It</li> <li>Write About It</li> </ul>	<ul> <li>TE/SE pg. 822</li> <li>balance, ounce and pound weights</li> </ul>
Wrap Up: • Assign homework	TE/SE pg. 823-824
<u>Learning Opportunities/Strategies:</u> Lesson 5 - Convert Customary Units of Weight	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will convert measurements of weight within the customary system.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real-world problems?"</li> </ul>	ТЕ рд. 825А-В
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	<ul> <li>New Vocabulary: ounce (oz), pound (lb), ton (T), weight</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 825В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain how to compare 22 ounces to 2 pounds."</li> </ul> </li> </ul>	TE/SE pg. 825-827
<ul> <li>Independent Practice</li> </ul>	• Assign On Level set: 4-16 (even), 17-21
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 828
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE pg. 829-830</b> <ul> <li>Sequence TE pg. 830</li> <li>SE pg. 829-830</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 6 - Hands On - Estimate and Measure Capacity	<b>Resources:</b> Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will estimate and measure the capacity of liquids.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page

<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve</li> </ul>	ТЕ рд. 833А
<ul><li>real-world problems?"</li><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	<ul> <li>New Vocabulary: capacity, gallons, pints, cups</li> </ul>
Build: • Measure It	<ul> <li>TE/SE pg. 833</li> <li>cup, pint, quart, and gallon containers</li> </ul>
Practice: • Talk About It • Practice It	<ul><li>TE/SE pg. 834-835</li><li>quart and gallon containers</li></ul>
Apply: Apply It Write About It	<ul> <li>TE/SE pg. 836</li> <li>cup, pint, quart, and gallon containers</li> </ul>
Wrap Up: Assign homework	TE/SE pg. 837-838
Learning Opportunities/Strategies: Lesson 7 - Convert Customary Units of Capacity	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will convert measurements of capacity within the customary system.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve</li> </ul>	ТЕ рд. 839А-В
<ul><li>real-world problems?"</li><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	<ul> <li>New Vocabulary: capacity, fluid ounce (fl oz), gallon (gal), pint (pt), quart (qt), cup (c)</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 839В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Explain how to compare 18 fluid ounces to 2 pints."</li> </ul> </li> <li>Independent Practice</li> </ul>	<ul> <li>TE/SE pg. 840-841</li> <li>Assign On Level set: 4-20 (even), 21-24</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 842

<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE/SE pg. 843-844</b> <ul> <li>Sequence TE pg. 844</li> <li>SE pg. 843-844</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 8 - Display Measurement Data on a Line Plot	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will display measurement data in fractions of a unit on a line plot and solve real-world problems.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real-world problems?"</li> </ul> </li> </ul>	ТЕ рд. 845А-В
<ul> <li>Developing Vocabulary</li> <li>Revise Problem of the Day, available on https://docs.google.com/presentation/d/13n0b_I1 KZH3vDIFT62gZY7cwm8x2Rs0lw1rTtI3FU3g/edit ?usp=sharing</li> </ul>	<ul> <li>New Vocabulary: fair share</li> </ul>
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 845В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Describe a situation in everyday life in which you would want to find a fair share."</li> </ul> </li> </ul>	TE/SE pg. 845-847
<ul> <li>Independent Practice</li> </ul>	• Assign On Level set: 2, 4, 6-9
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 848
Wrap Up: • Closure, available on <u>https://docs.google.com/presentation/d/13n0b_l1</u> <u>KZH3vDIFT62gZY7cwm8x2Rs0lw1rTtl3FU3g/edit</u> <u>?usp=sharing</u>	<b>TE pg. 849-850</b> • Ticket Out the Door TE pg. 850
Assign homework	• SE pg. 849-850
Learning Opportunities/Strategies: Lesson 9 - Hands On - Metric Rulers	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will measure the length of objects to the nearest centimeter and millimeter.	

<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real-world problems?"</li> <li>Problem of the Day</li> </ul>	ТЕ рд. 851А
Build: • Measure It	<ul><li>TE/SE pg. 851</li><li>centimeter rulers</li></ul>
Practice: • Talk About It • Practice It	TE/SE pg. 852-853
Apply: Apply It Write About It	TE/SE pg. 854
Wrap Up: • Assign homework	TE/SE pg. 855-856
Learning Opportunities/Strategies: Lesson 10 - Convert Metric Units of Length	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will convert measurements of length within the metric system.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real-world problems?"</li> </ul> </li> </ul>	ТЕ рд. 857А-В
Developing Vocabulary	<ul> <li>New Vocabulary: centimeter (cm), kilometer (km), meter (m), metric system, millimeter (mm)</li> </ul>
Problem of the Day	
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 857В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "How can you use mental math to convert 7.38 kilometers to meters?"</li> </ul> </li> </ul>	TE/SE pg. 857-859
Independent Practice	<ul> <li>Assign On Level set: 4-16 (even), 7-21</li> </ul>

Apply: • Problem Solving • Brain Builders	TE/SE pg. 860
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<b>TE pg. 861-862</b> • Self-Assessment TE pg. 862 • SE pg. 861-862
Learning Opportunities/Strategies: Lesson 11 - Hands On - Estimate and Measure Metric Mass	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will estimate the mass of objects and use a balance to measure the mass of objects.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real-world problems?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul><li>TE pg. 865A</li><li>New vocabulary: gram (g), kilogram (kg), mass</li></ul>
Build: • Measure It	<ul><li>TE/SE pg. 865</li><li>balances, gram weight</li></ul>
Practice: • Talk About It • Practice It	<ul> <li>TE/SE pg. 866-867</li> <li>balances, gram weight</li> <li>balances, gram weight</li> </ul>
Apply: • Apply It • Write About It	TE/SE pg. 868
Wrap Up: • Assign homework	TE/SE pg. 869-870
<u>Learning Opportunities/Strategies:</u> Lesson 12 - Convert Metric Units of Mass	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will convert measurements of mass within the metric system.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
Launch: <ul> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real-world problems?"</li> </ul>	ТЕ рд. 871А-В

Developing Vocabulary	• New Vocabulary: gram (g), kilogram (kg), mass,
	milligram (mg)
Problem of the Day	
Build:	TE pg. 871B
Investigate the Math: Explore, Model, Extend	
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Which is a more reasonable estimate for the mass of a</li> </ul> </li> </ul>	TE/SE pg. 871-873
<ul> <li>baseball: 140 milligrams, 140 grams, or 140 kilograms? Explain."</li> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 6-18 (even), 19-23</li> </ul>
Apply: • Problem Solving • Brain Builders	TE/SE pg. 874
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 875-876</li> <li>Ticket Out the Door TE pg. 876</li> <li>SE pg. 875-876</li> </ul>
Learning Opportunities/Strategies: Lesson 13 - Convert Metric Units of Capacity	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will convert measurements of capacity within the metric system.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How can I use measurement conversions to solve real-world problems?"</li> </ul>	ТЕ рд. 877А-В
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>New Vocabulary: liter (L), milliliter (mL)</li> </ul>
<ul> <li>Build:</li> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	ТЕ рд. 877В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Which unit would you use to measure the capacity of a glass of milk: milliliter or liter? Explain."</li> </ul> </li> </ul>	TE/SE pg. 877-879
Independent Practice	<ul> <li>Assign On Level set: 6-18 (even), 19-23</li> </ul>

Apply: Problem Solving Brain Builders		TE/SE pg. 880	
<ul><li>Wrap Up:</li><li>Complete formative ass</li><li>Assign homework</li></ul>	essment	TE pg. 881-882 • Ticket Out the Door • SE pg. 881-882	ГЕ рд. 882
Learning Opportunities/Strate Chapter 11 - Review and Refle		Resources:	
<b>Objective:</b> Assess students' un vocabulary and key concepts in			
Review Homework: Review ho needed.	mework problems as	Student Homework Page	
<ul> <li>Essential Question:</li> <li>Remind students of the can I use measurement real-world problems?"</li> </ul>	Essential Question: "How conversions to solve		
Review: Vocabulary Check Concept Check Problem Solving Brain Builders		TE/SE pg. 883-885	
Reflect:		TE/SE pg. 886	
Assign homework:		n/a	
Differentiation *Please note: Te to refer to Struggling and/or Spe		• •	ricular accommodations are
High-Achieving Students	On Grade Level Students	Struggling Students	Special Needs/ELL
<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "Beyond Level"</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> </ul> </li> </ul>	<ul> <li>Small Group</li> <li>Utilize gradual release model</li> <li>Modify problem set to "On Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Technology</li> <li>Participate in</li> </ul>	<ul> <li>Small Group</li> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions</li> </ul>	<ul> <li>Small Group</li> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions</li> </ul>

<ul> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	<ul> <li>individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> </ul>	<ul> <li>Pair with on grade level or higher-achieving students to problem solve</li> <li>Technology</li> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online</li> </ul>	<ul> <li>Pair with on grade level or higher-achieving students to problem solve</li> <li>Technology</li> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online</li> </ul>
	English Language Learner Guide to provide	online lesson animations to demonstrate a model/sample • Utilize the McGraw Hill English Language Learner Guide to provide	online lesson animations to demonstrate a model/sample • Utilize the McGraw Hill English Language Learner Guide to provide foundational support • Specific use of modalities - kinesthetic, visual, auditory, tactile • The multilingual eGlossary can support vocabulary Learning Station • My Learning Station student-led activity

#### Chapter 12: Geometry

### Stage 1: Desired Results

Standards & Indicators:

#### **NJSLS for Mathematics**

• **5.M.2** - Recognize volume as an attribute of solid figures and understand concepts of volume measurement.

• 5 M 3 - Measure volumes by counting unit cubes up	sing cubic cm, cubic in, cubic ft, and non standard units		
<ul> <li>5.M.3 - Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and non-standard units.</li> <li>5.M.4 - Relate volume to the operations of multiplication and addition and solve real world and mathematical</li> </ul>			
problems involving volume.			
• <b>5.M.4b</b> - Apply the formulas and for rectangular prisms to find volumes of right rectangular prisms with whole			
	<ul> <li>number edge lengths in the context of solving real world and mathematical problems.</li> <li>5.M.4c - Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right</li> </ul>		
	n-overlapping parts, applying this technique to solve real		
world problems.			
• <b>5.G.3</b> - Understand that attributes belonging to a ca			
	angles have four right angles and squares are rectangles,		
so all squares have four right angles.			
<ul> <li>5.G.4 - Classify two-dimensional figures in a hierarc</li> </ul>	hy based on properties.		
NJSLS for Mathematical Practice			
1 Make sense of problems and persevere in solvin	ng them.		
<ul> <li>2 Reason abstractly and quantitatively.</li> </ul>			
3 Construct viable arguments and critique the rea	soning of others.		
• <b>4.</b> - Model with mathematics.			
• 5 Use appropriate tools strategically.			
6 Attend to precision.			
• 7 Look for and make use of structure.			
• 8 Look for and express regularity in repeated reas	oning.		
Central Idea / Enduring Understanding:	Essential/Guiding Question:		
Students will	<ul> <li>How does geometry help me solve problems in</li> </ul>		
<ul> <li>classify polygons.</li> </ul>	everyday life?		
<ul> <li>classify triangles.</li> </ul>			
<ul> <li>classify, quadrilaterals.</li> </ul>			
<ul> <li>use attributes to describe two-dimensional</li> </ul>			
figures.			
<ul> <li>find the volume of prisms.</li> </ul>			
Content:	Skills (Objectives):		
Polygons	<ul> <li>Classify two-dimensional figures based on</li> </ul>		
<ul> <li>Hands On: Sides and Angles of Triangles</li> </ul>	properties.		
<ul> <li>Classify Triangles</li> </ul>	<ul> <li>Measure the sides and angles of triangles.</li> </ul>		
<ul> <li>Hands On: Sides and Angles of Quadrilaterals</li> </ul>	<ul> <li>Classify triangles based on attributes, such as</li> </ul>		
<ul> <li>Classify Quadrilaterals</li> </ul>	side measures and angle measures.		
	-		
<ul> <li>Hands On: Build Three-Dimensional Figures</li> <li>Three-Dimensional Figures</li> <li>Measure the sides and angles of quadrilaterals.</li> <li>Classify quadrilaterals based on attributes, such</li> </ul>			
Three-Dimensional Figures     Handa On: Liao Madala to Find Valuma			
Hands On: Use Models to Find Volume	as congruent sides, parallel sides, and right		
Volume in Prisms	angles.		
Hands On: Build Composite Figures	<ul> <li>Build nets and explore properties of three dimensional firmers</li> </ul>		
Volume of Composite Figures	three-dimensional figures.		
<ul> <li>Problem-Solving Investigation: Make a Model</li> </ul>	• Describe properties of three-dimensional figures.		
	Use models to find the volume of rectangular		
	prisms.		
	<ul> <li>Use volume formulas to find the volume of</li> </ul>		
	rectangular prisms.		
	<ul> <li>Use models to build composite figures and find</li> </ul>		
	the volume of composite figures.		
	<ul> <li>Find the volume of composite figures by relating</li> </ul>		
	volume to the operations of multiplication and		
	addition.		
	<ul> <li>Make a model to solve problems.</li> </ul>		

#### Interdisciplinary Connection(s):

#### NJSLS for Literacy

- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic and domain-specific words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- **RI.MF.5.6.** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, timelines, animations, or interactive elements on web pages) and explain how the information contributes to an understanding of the text in which it appears.
- L.VL.5.2. Determine or clarify the meaning of unknown and multiple-meaning academic **and domain-specific** words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.
- L.KL.5.1. Use knowledge of language and its conventions when writing, speaking, reading, or listening.
- **SL.ES.5.3.** Summarize the points a speaker makes and explain how each claim is supported by reasons and evidence.
- **SL.PE.5.1.** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly.
- **SL.II.5.2.** Summarize a written text read aloud or information presented in diverse media and formats (e.g., visually, quantitatively, and orally).
- SL.AS.5.6. Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task and situation.

#### **NJSLS for Social Studies**

- **6.1.5.GeoHE.2:** Cite examples of how technological advances have changed the environment in New Jersey and the United States (e.g., energy, transportation, communications).
- **6.1.5.HistoryUP.7:** Describe why it is important to understand the perspectives of other cultures in an interconnected world.
- **6.1.5.CivicsHR.4:** Identify actions that are unfair or discriminatory, such as bullying, and propose solutions to address such actions.

#### NJSLS for Science

• **3-5-ETS1-2** - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

#### NJSLS for Career Readiness, Life Literacies, and Key Skills

- **9.2.5.CAP.1**: Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.
- **9.4.5.Cl.**3: Participate in a brainstorming session with individuals with diverse perspectives to expand one's thinking about a topic of curiosity.
- 9.4.5.CT.1: Identify and gather relevant data that will aid in the problem-solving process.
- **9.4.5.CT.4**: Apply critical thinking and problem-solving strategies to different types of problems such as personal, academic, community and global.
- 9.4.5.IML.2: Create a visual representation to organize information about a problem or issue.

### Stage 2: Assessment Evidence

Diagnostic Assessment:	Summative Assessment:
Am I Ready?	My Review
	Reflect
Formative Assessments:	Chapter 12 - Assessment
<ul> <li>Analogy Prompt</li> </ul>	Chapter 12 - Performance Task
Ticket Out the Door	
Quick Write	Benchmark Assessment:
Modeling	<ul> <li>Benchmark Test 4 (covers chapters 1-12)</li> </ul>
Quick Draw	
Written Reflections	

Turn to Your Partner	
Send a Problem	
Talk Math	
Independent Practice     Check My Programs	
Check My Progress	
Stage 3: Le	arning Plan
Learning Opportunities/Strategies:	Resources:
Chapter Introduction	
<b>Objective:</b> Use diagnostic resources to determine which	
level of instruction is needed to help students get ready	
for the chapter.	
Chapter Introduction:	TE pg. 887
• Introduce the chapter by discussing the theme,	• TE/SE pg. 887
"Let's Travel!"	Online Video
<ul> <li>View online video to spark a discussion about how math is used in traveling.</li> </ul>	
Introduce the Essential Question: "How does	• TE/SE pg. 887
geometry help me solve problems in everyday life?"	
Am I Ready?	TE/SE pg. 889
Complete the "Am I Ready?" assessment to	
determine if students have the foundational skills	
they need in order to successfully learn the new	
skills and concepts presented in this chapter.	
	75/05 000
My Math Words	TE/SE pg. 890
<ul> <li>Review vocabulary words and complete "My Math Words" activity.</li> </ul>	<ul> <li>Review Vocabulary: acute angle, lines, parallel, right angle, angles, obtuse angle, perpendicular</li> </ul>
My Vocabulary Cards	TE/SE pg. 891-900
<ul> <li>Introduce vocabulary words and complete "My</li> </ul>	<ul> <li>New Vocabulary: acute triangle, attribute, base,</li> </ul>
Vocabulary Cards" activity.	composite figures, congruent angles, congruent
	figures, congruent sides, cube, cubic unit, edge,
	equilateral triangle, face, hexagon, isosceles
	triangle, net, obtuse triangle, octagon,
	parallelogram, pentagon, polygon, prism,
	rectangle, rectangular prism, regular polygon,
	rhombus, right triangle, scalene triangle, square,
	three-dimensional figure, trapezoid, triangular
My Foldoblo	prism, unit cube, vertex, volume
<ul> <li>My Foldable</li> <li>This foldable shows examples of polygons.</li> </ul>	TE/SE pg. 901-902
• This foldable shows examples of polygons. Complete the "My Foldable" activities.	1 L/OL Pg. 301-302
Wrap Up	Online
Math at Home: Family Letter - Student signs it	Must print letter
and presents it to parents/guardians.	
	<b>D</b>
Learning Opportunities/Strategies:	Resources:
Lesson 1 - Polygons	Follow corresponding Lesson Presentation Slides.

<b>Objective:</b> Students will classify two-dimensional figures	
based on properties.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in</li> </ul>	ТЕ рд. 903А-В
<ul><li>everyday life?"</li><li>Developing Vocabulary</li></ul>	<ul> <li>New Vocabulary: congruent angles, congruent sides, hexagon, octagon, pentagon, polygon, regular polygon</li> </ul>
Problem of the Day	
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 903В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "Is a circle a polygon? Explain."</li> </ul> </li> </ul>	TE/SE pg. 903-905
Independent Practice	<ul> <li>Assign On Level set: 2-10 (even), 11-15</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 906
<ul> <li>Wrap Up:</li> <li>Complete formative assessment</li> <li>Assign homework</li> </ul>	<ul> <li>TE pg. 907-908</li> <li>Ticket Out the Door TE pg. 908</li> <li>SE pg. 907-908</li> </ul>
<u>Learning Opportunities/Strategies:</u> Lesson 2 - Hands On - Sides and Angles of a Triangle	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will measure the sides and angles of triangles.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"</li> <li>Developing Vocabulary</li> </ul>	TE pg. 909A
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	Review Vocabulary: triangle
<ul><li>Build:</li><li>Measure It</li></ul>	<ul> <li>TE/SE pg. 909</li> <li>protractors, centimeter rulers</li> </ul>

Practice:	TE/SE pg. 910-911
Talk About It	<ul> <li>protractors, centimeter rulers</li> </ul>
Practice It	<ul> <li>protractors, centimeter rulers</li> </ul>
Apply:	TE/SE pg. 912
Apply It	<ul> <li>protractors, centimeter rulers</li> </ul>
Write About It	
Wrap Up:	TE/SE pg. 913-914
Assign homework	
Learning Opportunities/Strategies:	Resources:
Lesson 3 - Classify Triangles	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will classify triangles based on	
attributes, such as side measure and angle measures.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 915А-В
Remind students of the Essential Question: "How	ТЕ ру. 915А-В
does geometry help me solve problems in	
everyday life?"	
Developing Vocabulary	• New Vocabulary: acute triangle, attribute,
	equilateral triangle, isosceles triangle, right
	triangle, scalene triangle
<ul> <li>Problem of the Day</li> </ul>	
D. dd	
Build:	TE pg. 915B
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
Practice:	TE/SE pg. 915-917
Math in My World	
Guided Practice	
Talk Math	
• Students turn and talk: "Describe an	
isosceles right triangle."	
Independent Practice	<ul> <li>Assign On Level set: 4-10 (even), 11-14</li> </ul>
Apply:	TE/SE pg. 918
Problem Solving	
Brain Builders	
Wrap Up:	ТЕ рд. 919-920
Complete formative assessment	Ticket Out the Door TE pg. 920
Assign homework	• SE pg. 919-920
Learning Opportunities/Strategies	Posourcos
Learning Opportunities/Strategies: Lesson 4 - Hands On - Sides and Angles of	Resources: Follow corresponding Lesson Presentation Slides.
Quadrilaterals	

<b>Objective:</b> Students will measure the sides and angles of quadrilaterals.				
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page			
<ul> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"</li> </ul> </li> </ul>	ТЕ рд. 923А			
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	<ul> <li>Review Vocabulary: quadrilateral</li> </ul>			
<ul><li>Build:</li><li>Measure It</li></ul>	<ul> <li>TE/SE pg. 923</li> <li>centimeter or inch rulers, protractors</li> </ul>			
<ul> <li>Practice:</li> <li>Talk About It</li> <li>Practice It</li> </ul>	<ul> <li>TE/SE pg. 924-925</li> <li>centimeter or inch rulers, protractors</li> <li>centimeter or inch rulers, protractors</li> </ul>			
Apply: • Apply It • Write About It	<ul> <li>TE/SE pg. 926</li> <li>centimeter or inch rulers, protractors</li> </ul>			
Wrap Up: Assign homework	TE/SE pg. 927-928			
Learning Opportunities/Strategies: Lesson 5 - Classify Quadrilaterals	Resources: Follow corresponding Lesson Presentation Slides.			
<b>Objective:</b> Students will classify quadrilaterals based on attributes, such as congruent sides, parallel sides, and right angles.				
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page			
<ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"</li> </ul>	ТЕ рд. 929А-В			
<ul><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	<ul> <li>New Vocabulary: parallelogram, rectangle, rhombus, trapezoid, square</li> </ul>			
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 929В			
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math</li> </ul>	TE/SE pg. 929-931			

<ul> <li>Students turn and talk: "Tell why a square is a special kind of rectangle."</li> <li>Independent Practice</li> <li>Assign On Level set: 4-8 (ev</li> </ul>	
	ven), 9-13
Apply:     Problem Solving     TE/SE pg. 932	
Brain Builders	
Wrap Up: TE pg. 933-934	
Complete formative assessment     Modeling TE pg. 934	
Assign homework     SE pg. 933-934	
Learning Opportunities/Strategies: Resources:	
Lesson 6 - Hands On - Build Three-Dimensional Follow corresponding Lesson Pre	sentation Slides.
Figures	
<b>Objective:</b> Students will build nets and explore properties	
of three-dimensional figures.	
Review Homework: Review homework problems as Student Homework Page	
needed.	
Launch:     Remind students of the Essential Question: "How	
Remind students of the Essential Question: "How does geometry help me solve problems in	
everyday life?"	
Developing Vocabulary     New Vocabulary: congruent	figures, cube,
rectangular prism, three-dim	ensional figure, face,
net	
Problem of the Day	
Build: TE/SE pg. 935	
Build It     grid paper, scissors, tape	
Practice:     TE/SE pg. 936-937     orid paper, scissors, tape	
<ul> <li>Talk About It</li> <li>Practice It</li> <li>grid paper, scissors, tape</li> </ul>	
Apply: TE/SE pg. 938	
Apply It     grid paper, scissors, tape	
Write About It	
Wrap Up: TE/SE pg. 939-940	
Assign homework	
Learning Opportunities/Strategies: Resources:	
Lesson 7 - Three-Dimensional Figures Follow corresponding Lesson Pre	sentation Slides.
<b>Objective:</b> Students will describe properties of	
three-dimensional figures.	
Review Homework:         Review homework problems as         Student Homework Page	
needed.	

Launch:	ТЕ рд. 941А-В
Remind students of the Essential Question: "How	
does geometry help me solve problems in	
everyday life?"	<b>.</b>
Developing Vocabulary	<ul> <li>New Vocabulary: base, cube, prism, rectangular prism, three dimensional figure, triangular prism</li> </ul>
	prism, three-dimensional figure, triangular prism, vertex, edge, face
<ul> <li>Problem of the Day</li> </ul>	Vertex, euge, lace
Build:	TE pg. 941B
<ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul>	
<b>–</b> "	
Practice:	TE/SE pg. 941-943
<ul> <li>Math in My World</li> <li>Guided Practice</li> </ul>	
Talk Math	
<ul> <li>Students turn and talk: "Describe the</li> </ul>	
differences between a triangular prism	
and a rectangular prism."	
Independent Practice	<ul> <li>Assign On Level set: 2-8 (even), 9-11</li> </ul>
Apply:	TE/SE pg. 944
Problem Solving	12/02 pg. 344
Brain Builders	
Wrap Up:	TE/SE pg. 945-946
Complete formative assessment	Quick Draw TE pg. 946
Assign homework	• SE pg. 945-946
Learning Opportunities/Strategies:	Resources:
Lesson 8 - Hands On - Use Models to Find Volume	Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will use models to find the volume of	
rectangular prisms.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 949А
• Remind students of the Essential Question: "How	
does geometry help me solve problems in	
<ul><li>everyday life?"</li><li>Developing Vocabulary</li></ul>	New Vocabulary: cubic unit, unit cube, volume
<ul> <li>Problem of the Day</li> </ul>	
Build:	TE/SE pg. 949
Build It	centimeter cubes
Practice:	TE/SE ng 950-951
Talk About It	TE/SE pg. 950-951 • centimeter cubes
Practice It	<ul> <li>centimeter cubes</li> </ul>

Objective: Students will use volume formulas to find the volume of rectangular prisms.       Student Homework         Review Homework: Review homework problems as needed.       Student Homework         Launch:       • Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"       • Developing Vocabulary         • Problem of the Day       • New Vocal         Build:       • Investigate the Math: Explore, Model, Extend	1 ding Lesson Presentation Slides.
<ul> <li>Write About It</li> <li>Wrap Up:         <ul> <li>Assign homework</li> </ul> </li> <li>Learning Opportunities/Strategies:         <ul> <li>Lesson 9 - Volume of Prisms</li> <li>Objective: Students will use volume formulas to find the volume of rectangular prisms.</li> </ul> </li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build:         <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> </ul>	1 ding Lesson Presentation Slides.
Wrap Up: • Assign homeworkTE/SE pg. 953-954Learning Opportunities/Strategies: Lesson 9 - Volume of PrismsResources: Follow corresponObjective: Students will use volume formulas to find the volume of rectangular prisms.Resources: Follow corresponReview Homework: Review homework problems as needed.Student HomeworkLaunch: 	ding Lesson Presentation Slides.
<ul> <li>Assign homework</li> <li>Learning Opportunities/Strategies: Lesson 9 - Volume of Prisms</li> <li>Objective: Students will use volume formulas to find the volume of rectangular prisms.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build:         <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> </ul>	ding Lesson Presentation Slides.
<ul> <li>Assign homework</li> <li>Learning Opportunities/Strategies: Lesson 9 - Volume of Prisms</li> <li>Objective: Students will use volume formulas to find the volume of rectangular prisms.</li> <li>Review Homework: Review homework problems as needed.</li> <li>Launch:         <ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build:         <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> </ul>	ding Lesson Presentation Slides.
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Lesson 9 - Volume of PrismsFollow corresponObjective: Students will use volume formulas to find the volume of rectangular prisms.Follow corresponReview Homework: Review homework problems as needed.Student HomeworkLaunch: • Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?" • Developing Vocabulary • Problem of the DayTE pg. 955A-BBuild: • Investigate the Math: Explore, Model, ExtendTE pg. 955B	
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<ul> <li>needed.</li> <li>Launch: <ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul> </li> <li>Build: <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> </ul>	rk Page
<ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> <li>Build:         <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> </ul>	
<ul> <li>Developing Vocabulary</li> <li>Problem of the Day</li> <li>Build:         <ul> <li>Investigate the Math: Explore, Model, Extend</li> </ul> </li> </ul>	
Investigate the Math: Explore, Model, Extend	oulary: volume
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "If you know the area of the base of a rectangular prism and the prism's height, which formula would you use? Why?"</li> <li>Independent Practice</li> </ul> </li> </ul>	7 Level set: 4-8 (even), 9-12
Apply: TE/SE pg. 958	
Apply:     TE/SE pg. 958       • Problem Solving     • Brain Builders	
Wrap Up: TE pg. 959-960	
	ur Partner TE pg. 960 9-960
Learning Opportunities/Strategies: Lesson 10 - Hands On - Build Composite FiguresResources: Follow correspon	ding Lesson Presentation Slides.
<b>Objective:</b> Students will use models to build composite figures and find the volume of composite figures.	
Review Homework: Review homework problems as needed. Student Homework	

Launch:	TE pg. 961A
<ul> <li>Remind students of the Essential Question: "How does geometry help me solve problems in everyday life?"</li> <li>Developing Vocabulary</li> <li>Problem of the Day</li> </ul>	<ul> <li>New Vocabulary: composite figure</li> </ul>
Build: • Build It	<ul><li>TE/SE pg. 961</li><li>centimeter cubes</li></ul>
Practice: • Talk About It • Practice It	<ul> <li>TE/SE pg. 962-963</li> <li>centimeter cubes</li> <li>centimeter cubes, composite figure</li> </ul>
Apply: Apply It Write About It	<ul><li>TE/SE pg. 964</li><li>centimeter cubes</li></ul>
Wrap Up: Assign homework	TE/SE pg. 965-966
Learning Opportunities/Strategies: Lesson 11 - Volume of Composite Figures	Resources: Follow corresponding Lesson Presentation Slides.
<b>Objective:</b> Students will find the volume of composite figures by relating volume to the operations of multiplication and addition.	
<b>Review Homework:</b> Review homework problems as needed.	Student Homework Page
<ul> <li>Launch:</li> <li>Remind students of the Essential Question: "How does geometry help me solve problems in even devulte?"</li> </ul>	ТЕ рд. 967А-В
<ul><li>everyday life?"</li><li>Developing Vocabulary</li><li>Problem of the Day</li></ul>	New Vocabulary: composite figure
<ul><li>Build:</li><li>Investigate the Math: Explore, Model, Extend</li></ul>	ТЕ рд. 967В
<ul> <li>Practice:</li> <li>Math in My World</li> <li>Guided Practice</li> <li>Talk Math <ul> <li>Students turn and talk: "How is volume related to the operation of addition?"</li> </ul> </li> </ul>	TE/SE pg. 967-969
<ul> <li>Independent Practice</li> </ul>	<ul> <li>Assign On Level set: 2-8 (even), 9-11</li> </ul>
Apply: <ul> <li>Problem Solving</li> <li>Brain Builders</li> </ul>	TE/SE pg. 970

Wrap Up:	TE pg. 971-972
<ul> <li>Complete formative assessment</li> </ul>	<ul> <li>Ticket Out the Door TE pg. 972</li> </ul>
<ul> <li>Assign homework</li> </ul>	<ul> <li>SE pg. 971-972</li> </ul>
Learning Opportunities/Strategies:	Resources:
Lesson 12 - Problem-Solving Investigation - Strategy:	Follow corresponding Lesson Presentation Slides.
Make a Model	<b>3</b>
<b>Objective:</b> Students will make a model to solve problems	
<b>Objective:</b> Students will make a model to solve problems.	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Launch:	ТЕ рд. 973А-В
<ul> <li>Remind students of the Essential Question: "How</li> </ul>	
does geometry help me solve problems in	
everyday life?"	
<ul> <li>Problem of the Day</li> </ul>	
• Floblett of the Day	
Duild	
Build:	
Prepare	• TE pg. 973B
<ul> <li>Learn the Strategy</li> </ul>	<ul> <li>TE/SE pg. 973, centimeter cubes</li> </ul>
Practice:	TE/SE pg. 974
Practice the Strategy	<ul> <li>centimeter cubes</li> </ul>
Apply:	TE/SE pg. 975-976
Apply the Strategy	·
Review the Strategy	
Wron Uni	TE na 077 079
Wrap Up:	TE pg. 977-978
Complete formative assessment	Ticket Out the Door TE pg. 978
Assign homework	• SE pg. 977-978
Learning Opportunities/Strategies:	Resources:
Chapter 12 - Review and Reflect	
Objective: Assess students' understanding of the	
vocabulary and key concepts in this chapter.	
· · · ·	
Review Homework: Review homework problems as	Student Homework Page
needed.	
Essential Question:	
Remind students of the Essential Question: "How	
does geometry help me solve problems in	
everyday life?"	
Review:	TE/SE pg. 979-981
<ul> <li>Vocabulary Check</li> </ul>	
Concept Check	
Problem Solving	
Brain Builders	

Reflect:		TE/SE pg. 982			
Assign homework:		n/a			
Differentiation *Please note: Te			ricular accommodations are		
to refer to Struggling and/or Spe			1		
High-Achieving Students	On Grade Level	Struggling Students	Special Needs/ELL		
	Students				
<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "Beyond Level"</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> </ul> </li> <li>Utilize the McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul>	<ul> <li>Small Group <ul> <li>Utilize gradual release model</li> <li>Modify problem set to "On Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize McGraw Hill online lesson animations to demonstrate a model/sample</li> <li>Utilize the McGraw Hill English Language Learner Guide to provide</li> </ul> </li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> </li> <li>Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize the McGraw Hill online lesson</li> </ul> </li> </ul>	<ul> <li>Small Group <ul> <li>Specific use of modalities - kinesthetic, visual, auditory, tactile</li> <li>Utilize gradual release model</li> <li>Modify problem set to "Approaching Level"</li> <li>Utilize "Reteach" problem-set to model questions.</li> <li>Focus on critical thinking questions at the end of the lesson.</li> <li>Pair with on grade level or higher-achieving students to problem solve</li> </ul> Technology <ul> <li>Participate in RedBird Math individualized learning path</li> <li>Participate in Reflex Math individualized learning path</li> <li>Utilize McGraw Hill eTools for online manipulative support</li> <li>Utilize McGraw Hill Personal Tutor to demonstrate a model/sample</li> <li>Utilize the McGraw Hill online lesson animations to demonstrate a model/sample</li> </ul></li></ul>		

Language Learner	Language Learner
Guide to provide	Guide to provide
	foundational
	support
	<ul> <li>Specific use of</li> </ul>
	modalities -
	kinesthetic, visual,
	auditory, tactile
	The multilingual
	eGlossary can
	support vocabulary
	Learning Station
	<ul> <li>My Learning</li> </ul>
	Station student-led
	activity

	Math Pacing Guid Grade 5	de		
MP	Chapter Breakdown	# of days allotted	# of days subtotal	# of days cumulative
	McGraw Hill: My Math - Chapter 1 - Place Value			13
	Chapter Introduction	1	-	
	• Lessons 1-9 (@ 1 lesson per day)	9	-	
MP1	Review and Reflect	1	13	
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1	_	
	• Flex Day	1	-	
	McGraw Hill: My Math - Chapter 2 - Multiply Whole Numbers			
	Chapter Introduction	1	-	27
	• Lessons 1-10 (@ 1 lesson per day)	10		
MP1	Review and Reflect	1	14	
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1	_	
	• Flex Day	1		
	McGraw Hill: My Math - Chapter 3 - Divide by a One-Digit Divisor			
	Chapter Introduction	1	17	44
MP1	• Lessons 1-13 (@ 1 lesson per day)	13		
	Review and Reflect	1		
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1		

	• Flex Day	1		
MP1	Benchmark Test 1 (covers chapters 1-3)	1		45
	McGraw Hill: My Math - Chapter 4 - Divide by a Two-Digit Divisor			
	Chapter Introduction	1		
	• Lessons 1-6 (@ 1 lesson per day)	6		
MP2	Review and Reflect	1	10	55
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1		
	• Flex Day	1		
	McGraw Hill: My Math - Chapter 5 - Add and Subtrac	ct Decimals		
	Chapter Introduction	1		
	• Lessons 1-10 (@ 1 lesson per day)	10		69
MP2	Review and Reflect	1	14	
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1		
	• Flex Day	1		
	McGraw Hill: My Math - Chapter 6 - Multiply and Divide Decimals			
	Chapter Introduction	1		87
	• Lessons 1-14 (@ 1 lesson per day)	14		
MP2	Review and Reflect	1	18	
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1	-	
	• Flex Day	1		
MP2	Benchmark Test 2 (covers chapters 4-6)	1		88
	McGraw Hill: My Math - Chapter 7 - Expressions and	d Patterns		
	Chapter Introduction	1		101
	• Lessons 1-9 (@ 1 lesson per day)	9		
MP2-3	Review and Reflect	1	13	
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1		
	• Flex Day	1		
	McGraw Hill: My Math - Chapter 8 - Fractions and Decimals			
MDO	Chapter Introduction	1	40	44.0
MP3	• Lessons 1-8 (@ 1 lesson per day)	8	12	113
	Review and Reflect	1		

	Chapter Assessment     Chapter Performance Task	1		
	• Flex Day	1		
	McGraw Hill: My Math - Chapter 9 - Add and Subtract Fractions			
	Chapter Introduction	1		130
	• Lessons 1-13 (@ 1 lesson per day)	13		
MP3	Review and Reflect	1	17	
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1		
	• Flex Day	1		
MP3	Benchmark Test 3 (covers chapters 7-9)	1		131
	McGraw Hill: My Math - Chapter 10 - Multiply and D	ivide Fractions		
	Chapter Introduction	1	16	147
	• Lessons 1-12 (@ 1 lesson per day)	12		
MP3-4	Review and Reflect	1		
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1		
	• Flex Day	1		
	McGraw Hill: My Math - Chapter 11 - Measurement			
	Chapter Introduction	1		164
	• Lessons 1-13 (@ 1 lesson per day)	13		
MP4	Review and Reflect	1	17	
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1		
	• Flex Day	1		
	McGraw Hill: My Math - Chapter 12 - Geometry			179
	Chapter Introduction	1	15	
	• Lessons 1-12 (@ 1 lesson per day)	12		
MP4	Review and Reflect	1		
	<ul><li>Chapter Assessment</li><li>Chapter Performance Task</li></ul>	1		
	• Flex Day	0		
MP4	Benchmark Test 4 (covers chapters 1-12)	1		180