



Pemberton Township Schools



District Technology Plan



2016 - 2019



District/Nonpublic School/ Charter School Three-Year Educational Technology Plan Checklist

Stakeholder Table

Pemberton Township Schools

Stakeholder Table					
Title	Name	Signature			
Superintendent	Tony Trongone	Tous lougne			
Principal	Tamra Garbutt, Fort Dix Elementary	Janua Harlind			
Technology Coordinator	Nelson Vasquez, Network Engineer Kathy Bernacki, District Info. Officer	R G Kathy & Bernacki			
Curriculum Director/Curriculum Committee Member	Jeff Havers, Elementary Curriculum Supervisor Dan Nale, Elementary Curriculum Supervisor Deana Chiarella, Secondary Curriculum Supervisor Marie Germano, Secondary Curriculum Supervisor Larry Zuares, Ed. Tech. Coach	John Mr. 2 Zille Denalhiereller Main Dum Japanes			
Teacher	Walt Stark, STEM Teacher	Wallet			
Board Member	Jeffrey Wilson, P.T.B.O.E.	Ma			
Parent	Fonnie Reagan, Parent –Helen Fort / Newcomb Middle School	Fonni Reage			

District Vision

The students entering the Pemberton Township School District will graduate and live in the 21st century. Just as our culture has been transformed by technology over the past century, we must transform our application of technology to the teaching and learning process. Most importantly, our students need the technological tools and resources to help them learn and achieve in the future. It is generally accepted that technology continues to progress at an ever accelerating rate.

The responsibility of all school districts is to prepare students to live and excel in this ever-changing world. Technology decisions made today will have major effects on the quality and efficiency of the education delivered to the students of today and tomorrow.

In addition to changing student needs, school boards and administration will need information in timely, accurate, accessible and usable forms. Teachers need to be able to use technology effectively in their classrooms in order to increase and enhance learning time for students. Educators need to find new and better ways to accomplish their mission, both effectively and cost efficiently.

To this end, in 1991 a long-range planning committee set forth the following Belief Statements relative to the use of technology by students, staff, and community. These belief statements are central to the development of the district's technology mission statement and will serve to provide a framework from which all future technology action plans will be developed.

- 1. The Pemberton Township School District must provide a technology-rich environment for all curricular areas.
- 2. Technology places users in an information-rich environment, provides access to a broader world of communication and interaction, and generally enhances the teaching / learning process.
- 3. Successful utilization of technology requires the support of ongoing, high quality training and users who commit to a process of lifelong learning.
- 4. All users should have the opportunity to develop technology skills regardless of their ability level, socio-economic status or career goals.
- 5. Through the utilization of technology, users develop the following skills: critical thinking, problem solving, intellectual and ethical discrimination, self-directed learning, effective communication, and general workplace readiness.
- 6. A fully integrated technology program should enhance or establish collaborative efforts with the community, cooperating school districts, county educational institutions, post-secondary institutions, and business / industry.
- 7. Ongoing evolution of a technology plan should focus on industry trends, research findings, and an evaluation of the quality of utilization as well as the quantity of technology made available.

These beliefs have driven Pemberton Township Schools' commitment to technology implementations over the past 25 years. Many of our initiatives support these beliefs.

Since the initial effort in 1991, technology committees have met and revised the District Technology Plan eight times. Since 2001 a Strategic Planning Team consisting of parents, community members,

administrators, teachers and students have identified Technology as one of eight target areas for ongoing district initiatives.

This document reflects the direction dictated by the participants over the past years, notes their accomplishments to date, and outlines the plan in place for future technological endeavors.

The **Technology Mission** of the Pemberton Township School District is to incorporate technology into the educational program in order to:

- ✓ Establish an ongoing technology training program;
- ✓ Enhance higher order thinking skills;
- ✓ Prepare our students to live, work, and compete in a technological world;
- ✓ Provide equal opportunity for all students;
- ✓ Integrate technology into curriculum as a teaching and learning tool;
- ✓ Develop a district communication system available to all staff;
- ✓ Develop an information retrieval system for use by the district's staff, students, and the community;
- ✓ Establish an effective and efficient management system of the school district's operations;
- ✓ Establish a continuing process for updating and staying current in accordance with technological advances;
- ✓ Maintain an efficient, reliable and secure technology environment to ensure our technology infrastructure supports student achievement.

The district's plans to accomplish the mission, continues to be refined this year by a committee of district administration, technology personnel, curriculum supervisors, teachers, students and parents. Included in our District Technology Plan are strategies and action tables, which integrate the beliefs for educational technology.

The NJTrax Technology Readiness system was last updated in May of 2016 and reflects the current status of infrastructure, bandwidth, and devices.

District Infrastructure

The Pemberton Township School district serves approximately 5,000 students in preschool through twelfth grades. These students attend a pre-school, 7 elementary schools, a middle school and a high school. The district is supported through local, state and federal funding. Over the last few decades, with the realignment of the Joint Base McGuire-Dix-Lakehurst, both the total enrollment and federal funding has decreased substantially. Despite these challenges, the Administration and Board of Education continues to place a high priority on the importance of technology in our administrative and instructional environments.

Since 1998, Pemberton Township Schools have had a wide area network in place, which ties our clusters of schools and administration buildings together for high-speed data and voice communications. Our school data network infrastructure is comprised of six instructional LAN sites and two administrative sites tied by Comcast private fiber communicating at gigabit speed between locations. Within each instructional LAN location, multiple school buildings are connected by 12/strand multi-mode private fiber. Internal connections within the school are generally via fiber optic or Category 5/6 cable, with all instructional locations equipped with wireless technologies. Each LAN communicates with the Pemberton Township High School for centralized access to the internet, and Stackhouse Elementary School for voice communications. Each school in Pemberton Township has multiple mobile wireless laptop labs. From the High School location, all Pemberton Township Schools access the Internet via a filtered connection to Comcast Business Solutions at a speed of 200 mbps with a planned upgrade to 1 gigabit in July 2016. This upgrade is being done to support all students and administration in efficient simultaneous access to the Internet. A Barracuda internet appliance is in place so that all access to the internet is filtered and safe. Each student is educated by their home school on internet safety and ethical use by media specialists, teachers, technology coordinators and posters in classrooms. Parents receive cyber safety information each year via our Parent Teacher Organizations and our district web sites.

The Pemberton Township networking and telecommunications equipment is undergoing continued maintenance and upgrades in order to have the capacity to support 21st century skills and the continued PARCC testing in the 16-17 school year. All instructional areas have wired and wireless technologies and access for guests and support for BYOD. Additionally, one-to-one initiatives will be continued for all four grade levels at Pemberton Township High School, and initiated for the sixth through eighth grade levels at Helen Fort / Newcomb Middle School, and third through fifth graders at Fort Dix Elementary in the 2016-2017 school year. In support of these programs the wired and wireless networks at Pemberton Township High School and Helen Fort Middle School were upgraded in 2014. Wired and wireless upgrades will take place in the summer of 2016 at Newcomb and Fort Dix Elementary. In subsequent years as budgets allow, wired and wireless networks will be replaced at the Emmons/Busansky, and Stackhouse/Harker-Wylie/Haines and PECEC complexes. An e-rate submission for 80% discounts on these projects is pending approval. An SDA project is in the planning stages which will replace the Crichton/Denbo complex and implement a new wired and wireless infrastructure which will conform to our new district standard: Extreme Networks.

Symantec anti-virus software is installed on file servers and all clients to protect our network from virus corruption. Additionally, Spam software is in place to filter content sent to staff members via our Microsoft Exchange email server. Network usage is centrally monitored from the Computer Services offices to ensure adequate capacity is planned. The IT staff consists of 10 school based technology coordinators who serve as the first line of defense for technology issues. There is a higher concentration of technology coordinators in buildings with one-to-one initiatives in order to have adequate support where there are more devices. If a technology coordinator cannot resolve an issue a work order is electronically submitted through K12 Trouble Tracker. The District Information Officer then assigns problem resolution to one of the district level staff: Network Engineer, Systems Engineer, Systems Analyst, District Database Coordinator or Computer Services Secretary. All network equipment and infrastructure setups and IP addresses are documented and monitored in real time.

Each building is equipped with video surveillance cameras and recording devices, and proximity card access for staff. Recent renovations have reconfigured all main entrances with security monitor windows and locked vestibules where visitors are screened prior to entering our school buildings.

The Pemberton Township Schools classroom technology inventory is outlined in the NJTrax reports in the School Infrastructure section.

Future facilities endeavors, will necessitate an infrastructure installation comparable to or better than those we have in place at current locations. This will support GB communications to desktops, wireless networking, 2 computers per classroom at the preschool level, 4 computers per classroom at grades K – 5, and 1 computer per classroom at grade 6 and above, and high-speed telecommunications to the wide area network to facilitate voice and data communications. Such implementations have meant proper planning of infrastructure, network electronics, PC acquisition, file servers and content specification, PBX and phone station specification, video conferencing capabilities, and maintenance arrangements.

In addition to new facilities plans, Pemberton Township seeks upgrades to existing technologies as funds become available including

- Increased use of mobile technologies including laptops, tablets, e-readers and handheld devices in all grades in support of instructional activities
- Upgrade of file servers and / or operating systems as technologies evolve
- Continued implementation of storage area network backup strategy

Teaching and Learning Within the District

Many new instructional and administrative strategies are being embraced in Pemberton Township Schools associated to 21st Century skills. This represents the transition of teaching and learning from the "sage on the stage" dynamic to a truly flipped classroom where students are encouraged to collaborate, and participate in peer review. These concepts are paramount when pilot groups of teachers are participating in software evaluation projects over many grade levels over time. Teachers find that with quality digital content, high achieving traditional learners need to shift their methodologies, while other students become engaged and learn in ways never experienced in the past. Google classroom and google docs will routinely be paired with new endeavors like Study Sync and Blackboard Learn to motivate and engage students. Certainly, this paradigm shift is a challenge to teachers, but results indicate most satisfactory outcomes. Both assessments within digital content and hopefully local and state mandated testing will bear out the positive effects. The following categories of curriculum and technology endeavors outline our plan for the next three years.

PreK-5 Elementary Schools

- Continued implementation SMART Board in every classroom
- Classroom sets (of 10) iPads in every classroom leveraging wireless technology to provide flexible mobility. Innovative methodologies and classroom management strategies will be employed in all curriculum content areas, allowing students to routinely use technology in their pursuit of knowledge and the development of required skills.
- Use of digital content to be used in centers and during Intervention & Enrichment periods
 - Use of existing curricular resources that provide digital content to students
 - Reading and math fact fluency virtual platforms

Middle & High School

- Focus is student engagement
- 1:1 "device to student" for all students
- Digital content for each subject area
- Must include real time assessment of student product in order for teachers (and if available, digital content such as Read 180) to adapt to learner's zone of proximal development
- Virtual learning platform and course management system that integrates with existing

- student information system and gradebook.
- Opportunities for student collaboration in project-based learning will exist both within and beyond the walls of the classroom, whether an isolated exchange, a social media interaction with one or more concurrent partners, an electronic field trip, or a scheduled videoconference-based class session. Every student will be able to communicate and share ideas and information with others in remote locations on a regular basis, from any classroom or from home using emerging social networking and other Web 2.0 tools. Text, images, voice, and video will be exchanged effortlessly and responsibly as students travel down new pathways, participate in virtual communities or visit electronic venues of information using vehicles of technology.

IT Department

The changing face of the technology-rich environment and the openness of communications delivery systems will increasingly, and unfortunately, continue to include many new risks for users related to their information, applications and equipment. Technology managers must continuously assess these threats, such as hackers, viruses, spam, and various forms of malware, and then provide security measures that may prevent and/or address the impact of attacks on both technology resources and their users. Technology users must be active participants in the protection of the resources they use with the guidance and support of technology managers. Caution also must be taken, with heightened awareness, concerning Cyber safety and the potential for risks users often take while interacting in social networking environments, on commerce sites, or in any circumstance when the exposure to inappropriate content and/or the sharing of personal information is involved.

Transformational Budgeting

General budget funds have been allocated from the 2016-2017 Budget year for the upgrade of wired and wireless networks at Newcomb and Fort Dix Elementary in support of the one-to-one initiatives planned in those locations next year. The project will be completed in the summer of 2016. Additionally, a recent e-rate 471 application has been submitted requesting 80% discounts on network upgrades totaling \$541,282 at Busansky, Emmons, Fort Dix, Harker-Wylie, Newcomb, and Pemberton Early Childhood Education Center. Crichton and Denbo was not included in this submission due to the SDA replacement project in process. The new e-rate rules allow us 5 years to complete the requested network upgrades from the date of the funding decision. It is anticipated that network upgrades will be completed at a school complex as one-to-one programs are implemented at the site.

Pemberton Township Schools has a 5-year rotating refresh cycle ensuring no PC or server is older than 5 years. In this way, we have a fairly constant budget refresh number each year. Our technology initiatives funded for next year on a zero based budget include

- Computer refresh at Pemberton Township High School
- Computer refresh at Pemberton Early Childhood Education Center
- One-to-one iPad initiative grades 3-5 at Fort Dix Elementary
- One-to-one iPad initiative grades 6-8 at Helen Fort / Newcomb Middle School
- Continued one-to-one Dell Venue Tablet initiative at PTHS for incoming freshmen
- Installation of flat panel monitors at Middle School and PTHS
- Continued installation of Apple TV's

It is anticipated that, if funding allows, classrooms sets of 10 iPads will continue in our grade three through five elementary schools throughout the district over the next 3 years, and to lower grade levels ultimately. Leasing vs. buying is being investigated as a budget option.

<u>School Infrastructure - NJTRAX</u>

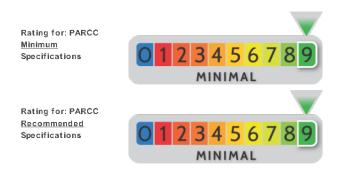


District Report Pemberton Township Schools

(Ratings based on Minimum PARCC specifications.)

This report provides a snapshot of the district's technology readiness for online assessment based on the NJTRAx data provided by the school's representative. The readiness ratings in this report are only as accurate as the data upon which they are based and are not a guaranteed indicator of success. This report is intended to be informational and to be used as one element of the data reviewed by Districts and Local Educational Agencies (LEAs)/Testing Sites as they prepare for technology readiness.

District Technology Readiness for Online Assessment



The Readiness Ratings for Online PARCC
Performance Assessment (20-day window)
use a scale of 0-9,
where 0 = Missing or Out of Range Data, 1-3
= Low Not Ready, 4-6 = Moderate Not
Ready, and 7-9 = Ready.

The report is based upon assumptions that influenced the calculations and results.

The assumptions are as follows:

- The administration window for each of the two PARCC summative assessments is twenty (20) days. All assessments and
 make-ups must be administered within the twenty day window. Although some LEAs/Testing Sites may be able to schedule
 fewer days, the report is based on the availability of all twenty days.
- · As per PARCC documentation, the report uses two assessment sessions per day in its calculations.
- This report uses a 10% overage included in the amount of devices that are needed in order to account for possible breakage and repair issues that could occur during the assessment administration.
- This report uses PARCC minimum bandwidth specifications for online testing. Those specifications are: 50 Kbps per student
 with no content caching and 5 Kbps when content caching is used. Eighty percent (80%) of the available Internet bandwidth
 is used in the network readiness calculation since 80% represents the percentage of Internet bandwidth typically available
 for high quality data transport.
- A "No Rating" will display in the results when one of two situations arise:
 - o The rating could not be determined due to missing data from the school's NJTRAx data file.

o The **data are out of range** – for example, an Internet utilization entry with the entry at 0% (which does not take into account normal, everyday usage) or 100% (which indicates there would be no bandwidth available for testing above normal usage).

It should be noted that the reporting feature of the PARCC TRT does not include all of these assumptions. Due to this, the results of this report may differ from the reports found in the PARCC TRT.





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District Report: Executive Summary



Technology Readiness Rating

To be considered OVERALL TECHNOLOGY READY FOR ONLINE TESTING the District must meet each of the following criterion:

A) The District must be rated Network Ready (see below for definition)

B) All schools in the district that are testing sites must be rated as Technology Ready for Online Testing.



Network Readiness Rating

If the District is the Internet Service Provider for its schools then, to be deemed Network Ready, the district must have adequate bandwidth to accommodate normal traffic plus all simultaneous test takers from all schools across the duration of the testing window. In addition, all its schools must be Network Ready.

If the District is not the ISP, then to be considered Network Ready, all its schools must be Network Ready.



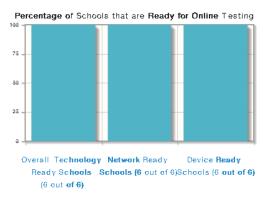
Device Readiness Rating

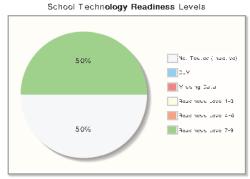
To be device ready, a district must have all of its schools device ready.

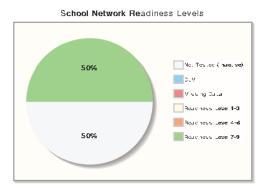
Testing Specifications

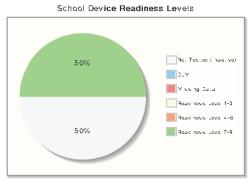
Number of schools: 12	Grade	Number of Students
Number of students to be tested: 2926	3	369
Number of test sittings per Grade 3-5 student: 8	4	369
Number of test sittings per Grade 6-11 student: 7 Grades Tested: 3, 4, 5, 6, 7, 8, 9, 10, 11	5	383
Assessment Window: 30 days	6	
Assessment Sessions per Day: 2		300
	7	356
	8	356
	9	312
	10	253
	11	228

Summary Status Report









District **Network Readiness** Pemberton Township Schools

(Ratings based on Minimum PARCC specifications.)

A District is Network Ready for Online Assessment if it meets one of two criteria:

- If the district is the Internet Service Provider (ISP) for its schools, then all its schools must be
 network ready and there must be adequate district Internet bandwidth available to accommodate
 all simultaneous users from all schools across the district at 50 Kbps per test taker for those not
 using caching servers, and at 5 Kbps for those using caching servers.
- If the district is not the ISP then to be considered network ready all the schools must be rated as Network Ready for Online Assessment.

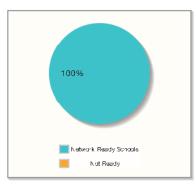
New Jersey/PARCC Guidelines for Overall District Technology Readiness for Online Assessment

To be considered OVERALL TECHNOLOGY READY FOR ONLINE TESTING the district must meet each of the following criterion:

- All schools must be rated as Technology Ready for Online Assessment.
- The District must be rated Network Ready for Assessment: If the district is the Internet Service Provider (ISP) for its schools, then there must be adequate district Internet bandwidth available to accommodate normal Internet traffic plus the extra load required to meet the online assessment demands of the maximum number of simultaneous test takers for all schools across the district, for the duration of the testing window. If the district is not the ISP, then to be considered network ready, the district must have all the schools rated as Network Ready for Online Assessment.

This District's Network Status

Percentage of Network Ready Schools:



A Closer Look at the Schools

Category of Netw ork Readiness for Online Assessment	Count of Schools	Schools		
NOT TESTED	6	Howard L. Emmons Harker-wylle/isaiah Haines School Aletta Crichton School Pemberton Evening High School Pemberton Evening School For Foreign Born Pemberton Early Childhood Education Center		
DLM	0			
MISSING DATA	0			
NOT READY Low Level Rating:1-3	0			
NOT READY Mid-Level Rating:4-6	0			
READY Rating:7-9	6	Helen A. Fort/marcus Newcomb Middle School Pemberton Township High School Fort Dix Elementary School Alexander Denbo School Samuel T. Busansky School Joseph S. Stackhouse School		

Recommendations

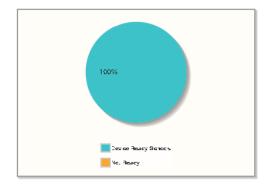
Please check your individual schools' network ratings and associated recommendations.

District Device Readiness Pemberton Township Schools

(Ratings based on Minimum PARCC specifications.)

The chart to the right provides a snapshot of the Device Readiness for Testing for the schools in this District.

The table below provides the ratings for individual schools in the district.



Category of Device Readiness for Online Assessment	Count of Schools	Schools
NÖT TESTED	6	Howard L. Emmons Harker-wylie/isaiah Haines School Aletta Crichton School Pemberton Evening High School Pemberton Evening School For Foreign Born Pemberton Early Childhood Education Center
DLM	0	
MISSING DATA	0	
NOT READY Low Level Rating:1-3	0	
NÖT READY Mid-Level Rating:4-6	0	
READY Rating:7-9	6	Helen A. Fort/marcus Newcomb Middle School Pemberton Township High School Fort Dix Elementary School Alexander Denbo School Samuel T. Busansky School Joseph S. Stackhouse School

Recommendations

For specific recommendations on device readiness, please review the reports from each school, or use the Sandbox to investigate how the District's readiness ratings change when devices are upgraded or added.

Teaching, Learning and Assessment

Tables for each school follows...

Technology Plan Template

Implementation Planning – School-Based Table

School: District

NJTRAX PARCC Readiness Rating: 9 NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Provide adequate network infrastructure and bandwidth to support one-to-one devices

Strategy: Upgrade network infrastructure and internet as one-to-one implemented in school(s) Indicator(s): Increased access

Objective: Upgraded wired and wireless infrastructure and Internet pipe

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Upgrade wired and wireless infrastructure at Newcomb and Fort Dix Elementary in support of one-to-one in September 2016	Computer Services and Carousel Industries.	09/2016	New Extreme hardware and cable installation
Upgrade Comcast Internet pipe from 200 mbps to 1 GB	Computer Services and Comcast	Summer 2016	Increased bandwidth
Upgrade wired and wireless infrastructure at Busansky, Emmons, Harker-Wylie, Stackhouse, and PECEC in support of one-to-one initiatives.	Computer Services and Carousel Industries.	Summers 2017-2021 (5 year window if e- rate funded in 2016)	New Extreme hardware and cable installation

Goal 2: Provide adequate technology support to schools with one-to-one initiatives.

Strategy: As schools obtain one-to-one devices, convert school based tech coordinators to 12-months and add additional techs if necessary.

Indicator(s): Appropriate response times to requests for technology assistance

Objective: One-to-one initiatives are appropriately supported for teacher and student success.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Add additional 12-month school based technology coordinator to Helen Fort / Newcomb Middle School	District Information Office with support of Superintendent and BOE	Summer 2016	K-12 Trouble Trakker response time to work orders
Convert Fort Dix Elementary school based technology coordinator to 12 months	District Information Office with support of Superintendent and BOE	Summer 2017	K-12 Trouble Trakker response time to work orders
As one-to-one programs are expanded, increase support to schools	District Information Office with support of Superintendent and BOE	Summers 2018 & 2019	K-12 Trouble Trakker response time to work orders

Goal 3: Continue to refresh computers on a five year rotation cycle to ensure no classroom computer or mobile lab laptop is older than 5 years.

Strategy: Refresh technologies at Helen Fort & PECEC Indicator(s): New computers, VDI and laptops at HFMS & PECEC

Objective: Successful deployment of new hardware on a 5-year rotation so equipment is dependable and budgets are stable. Refresh commodities re-evaluated as one-one devices are implemented in schools.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Procure and install new desktops, laptops and VDI at Helen Fort Middle and Pemberton Early Childhood Education Center	District Information Officer, Computer Services and Dell	Summer 2016	Purchase order to Dell and Firefly Computing
Procure and install new desktops, laptops and VDI at Pemberton Township High School	District Information Officer, Computer Services and Dell	Summer 2017	Purchase order to Dell and Firefly Computing
Procure and install new desktops, laptops and VDI at Emmons, Busansky and Newcomb	District Information Officer, Computer Services and Dell	Summer 2018	Purchase order to Dell and Firefly Computing

Goal 4: Educational Technology Facilitator becomes Certified Apple Educator in support of Apple one-to-one programs at the Middle and Elementary Schools.

Strategy: Send Ed. Tech. Facilitator to Apple Academy Indicator(s): Certification in Apple Education

Objective: Ensure high quality and highly accessible training is available in support of our teachers involved in one-to-one iPad initiatives.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Send Educational Technology Facilitator to the Apple Academy for certification.	Superintendent and Curriculum Directors	Summer 2016	Apple Academy

Goal 5: Implement Blackboard Learning and Blackboard Content Management System district-wide

Strategy: Convert existing class and school website, and implement Parent Portal app Indicator(s): New websites and app

Objective: Improve school to home communications with websites and phone apps for "one stop shopping" for student information.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Implement new district and school websites.	Media Services and technology coordinators	Summer 2016	New websites
Implement Parent Link app with data integration to student database, transportation software, school lunch software, calendars, sports schedules and social media.	Media and Computer Services	Summer 2016	Parent Link app available
Teacher websites and classroom resources populated within Blackboard LMS with integration to google classroom and other digital learning systems.	Curriculum supervisors, technology coordinators and teachers	2016-2019	Classroom websites and resources

Goal 6: Establish a K-2 Keyboarding curriculum teaching students how to type on the keyboard quickly, accurately, and with correct technique.

Strategy: Prepare students with skills necessary to use technology effectively in the classrooms Indicator(s): Keyboarding curriculum

Objective: Ensure high quality and highly accessible training is available in support of our teachers involved in one-to-one iPad initiatives.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Curriculum supervisors specify K-2 grade specific keyboarding curriculum	Curriculum Director and curriculum supervisors	Summer 2017	Software and web site activities

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Transfer of knowledge from Extreme Technologies to Pemberton Staff for network monitoring and support	Questions to vendor on an "as needed" basis covered by annual support agreements. Negotiated 5-year free support.
2	New 12-month technology coordinator position is posted for Helen Fort / Newcomb Middle School. Apple professional development will be provided from district-level staff.	Fort Dix technology coordinator will be converted to 12-month position. Apple professional development will be provided from district-level staff.
3	Work with Dell to identify new technologies.	Dell support as needed
4	Send Ed. Tech Facilitator to Apple Academy	Continued support from Apple Education Professionals
5	Technology coordinators and master teachers turnkey training to teachers	Ongoing professional development
6	Dissemination of new curriculum via master teachers, literacy coaches	Continued review of curriculum and student success

Budget

Goal No.	Activity	Funding Source	Amount
		(Federal/State/Private)	
1	Upgrade Infrastructure Newcomb & Fort Dix	State	\$208,437 (minus 80% e-rate discount if awarded)
1	Upgrade Infrastructure Emmons, Busansky, Harker-Wylie, Stackhouse and PECEC.	State	\$332,845 (minus 80% e-rate discount if awarded)
2	New 12 month technology coordinator at HF/Newcomb Middle	State	\$50,000
2	Make Fort Dix Elementary Tech 12-month employee	State	\$15,000
3	Refresh Helen Fort Middle and PECEC	State	\$258,000
3	Refresh PTHS	State	\$250,910
4	Certified Apple Educator	State	\$5,000
5	Blackboard LMS and CMS	State	\$81,000

Reflection and Adjustment - District

Each year, district timelines and project completion will be assessed. Budgeting constraints may require realignment of resources and adjustment of timelines. Teacher's lesson plans will be monitored by the curriculum supervisors and administration on an ongoing basis to assess progress on the SAMR continuum and refocus professional development as needed, with the ultimate goal of transforming Instruction with technology rather than simply enhancing it.

Technology Plan Template

Implementation Planning – School-Based Table

School: Pemberton Early Education Center - PK

NJTRAX PARCC Readiness Rating: Not tested NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Refine and incorporate new and legacy curriculum to 10 classroom sets of Apple iPads

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher Lesson plans

Objective: Content delivered in new, engaging and innovative manner.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
PK teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2016 - 06-2019 ongoing	Teacher lesson plans
Classroom sets (10) of iPads in every classroom leveraging wireless technology to provide flexible mobility. Innovative methodologies and classroom management strategies will be employed in all curriculum content areas, allowing students to routinely use technology in their pursuit of knowledge and the development of required skills.	Curriculum Supervisors, Building Principal and Teachers	06/2019	Teacher Lesson Plans

Goal 2: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Professional Development on SAMR model, and new FASTT Math application	Ongoing training
1	Professional development on Apple technologies and age appropriate apps	Ongoing training
2	Professional development on cyber safety and digital citizenship	Ongoing training

Budget

Goal No.	Activity	Funding Source	Amount
		(Federal/State/Private)	
1	Classroom sets (10) of iPads in every classroom	State	\$7,000 x 37 classrooms=\$259,000

Reflection and Adjustment - Pemberton Early Childhood Education Center

Each year, district timelines and project completion will be assessed. Budgeting constraints may require realignment of resources and adjustment of timelines. Teacher's lesson plans will be monitored by the curriculum supervisors and administration on an ongoing basis to assess progress on the SAMR continuum and refocus professional development as needed, with the ultimate goal of transforming instruction with technology rather than simply enhancing it.

Technology Plan Template

Implementation Planning – School-Based Table

School: Fort Dix Elementary - Grades PK - 5

NJTRAX PARCC Readiness Rating: 9 NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Implement one-to-one Apple iPad initiative in grades 3-5

Strategy: 220 iPads on mobile carts introduced in Fall 2016 Indicator(s): iPads procured

Objective: To promote student engagement and 21st century skills using iPads in a one-to-one Setting

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Procure and configure 220 Apple iPad Air, keyboards and 8 carts	District Information Officer and Computer Services Staff	Summer 2016	Purchase order to Apple
Continued professional development for teachers and staff in Apple education products and instructional strategies.	Apple Education Staff and Educational Technology Facilitator	09/2016 - 06/2017	External and Internal led workshops
Vetting of instructional and administrative apps	Administration and curriculum supervisors	07/2016 - 06/2017	App selection and load to devices

Goal 2: Refine and incorporate new and legacy curriculum to new Apple platform (3-5) and Legacy Dell Netbooks (K-2)

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher Lesson plans

Objective: Content delivered in new, engaging and innovative manner.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
K-2 classrooms will use 213 legacy Dell Netbooks to deliver Journeys, FASTT Math, Go Math!, and Scholastic News with SMART Boards (all K-2 classrooms equipped with SMART Boards Spring 2016)	Curriculum Supervisors, Building Principal and Teachers	09/2016	Teacher Lesson plans
3-5 classrooms will use iPads, Apple TV's and SMART Boards to integrate Journeys, FASTT Math, Go! Math, TIME for Kids, Notability, Pages and Apple Classroom management tools	Curriculum Supervisors, Building Principal and Teachers	09/2016	Teacher lesson plans
K-5 All teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2016 - 06-2019 ongoing	Teacher lesson plans

Goal 3: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, Teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Continued professional development for teachers and staff in Apple education products and instructional strategies.	Ongoing training
2	Professional Development on SAMR model, and new FASTT Math application	Ongoing training
3	Professional development on cyber safety and digital citizenship	Ongoing training

Budget

Goal No.	Activity	Funding Source	Amount
		(Federal/State/Private)	
1	Procure and configure 220 Apple iPad Air, keyboards and 8 carts	State	\$169,300

Reflection and Adjustment - Fort Dix Elementary

Each year, district timelines and project completion will be assessed. Budgeting constraints may require realignment of resources and adjustment of timelines. Teacher's lesson plans will be monitored by the curriculum supervisors and administration on an ongoing basis to assess progress on the SAMR continuum and refocus professional development as needed, with the ultimate goal of transforming instruction with technology rather than simply enhancing it.

Technology Plan Template

Implementation Planning – School-Based Table

School: Emmons Elementary – Grades K-2

NJTRAX PARCC Readiness Rating: Not tested

NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Refine and incorporate new and legacy curriculum to Legacy Dell Netbooks and mobile labs (K-2) and later 10 classroom sets of Apple iPads

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher Lesson plans

Objective: Content delivered in new, engaging and innovative manner.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
K-2 classrooms will use legacy Dell Netbooks and mobile labs to deliver Journeys, Go Math!, FASTT Math, and Scholastic News with SMART Boards (all K-2 classrooms equipped with SMART Boards Spring 2016)	Curriculum Supervisors, Building Principal and Teachers	09/2016	Teacher lesson plans
K-2 All teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2016 - 06-2019 ongoing	Teacher lesson plans
Classroom sets (10) of iPads in every classroom leveraging wireless technology to provide flexible mobility. Innovative methodologies and classroom management strategies will be employed in all curriculum content areas, allowing students to routinely use technology in their pursuit of knowledge and the development of required skills.	Curriculum Supervisors, Building Principal and Teachers	07/2018	Teacher lesson plans

Goal 2: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Professional Development on SAMR model, and new FASTT Math application	Ongoing training
2	Professional development on cyber safety and digital citizenship	Ongoing training

Budget

Goal No.	Activity	Funding Source	Amount
		(Federal/State/Private)	
1	Classroom sets (10) of iPads in every classroom	State	\$7,000 x 22 classrooms=\$154,000

Reflection and Adjustment - Emmons Elementary

Each year, district timelines and project completion will be assessed. Budgeting constraints may require realignment of resources and adjustment of timelines. Teacher's lesson plans will be monitored by the curriculum supervisors and administration on an ongoing basis to assess progress on the SAMR continuum and refocus professional development as needed, with the ultimate goal of transforming instruction with technology rather than simply enhancing it.

Technology Plan Template

Implementation Planning - School-Based Table

School: Busansky Elementary - Grades 3-5

NJTRAX PARCC Readiness Rating: 9 NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Refine and incorporate new and legacy curriculum to new Apple platform (3-5)

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher Lesson plans

Objective: Content delivered in new, engaging and innovative manner.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
3-5 classrooms will use classroom sets of 10 iPads, Apple TV's and SMART Boards to integrate Journeys, Go Math!, Time for Kids, FASTT Math, Notability, Pages and Apple Classroom management tools	Curriculum Supervisors, Building Principal and Teachers	09/2017	Teacher lesson plans
3-5 All teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2017 - 06-2019 ongoing	Teacher lesson plans

Goal 2: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Goal 3: Install SMART Boards in all grade 3-5 classrooms

Strategy: All grade 3-5 classrooms are equipped with SMART Board technology Indicator: SMART Board installed

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Complete installation of SMART Board technology in all remaining 3-5 classrooms	District Information Officer and vendor	09/2017 - 06/2019	Installed SMART Board

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Continued professional development for teachers and staff in Apple education products and instructional strategies.	Ongoing training
1	Professional Development on SAMR model, and new FASTT Math application	Ongoing training
2	Professional development on cyber safety and digital citizenship	Ongoing training
3	Professional development on SMART Technologies	Ongoing training

Budget

Goal No.	Activity	Funding Source	Amount
		(Federal/State/Private)	
1	Classroom sets (10) of iPads in every classroom	State	\$7,000 x 19 classrooms=\$133,000
3	Install 5 additional SMART Boards	State	\$4,300 x 5 = \$21,500

Reflection and Adjustment - Busansky Elementary

Each year, district timelines and project completion will be assessed. Budgeting constraints may require realignment of resources and adjustment of timelines. Teacher's lesson plans will be monitored by the Curriculum supervisors and administration on an ongoing basis to assess progress on the SAMR continuum and refocus professional development as needed, with the ultimate goal of transforming instruction with technology rather than simply enhancing it.

Technology Plan Template

Implementation Planning – School-Based Table

School: Crichton Elementary - Grades PK-2

NJTRAX PARCC Readiness Rating: Not tested NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Refine and incorporate new and legacy curriculum to Legacy Dell Netbooks and mobile labs (K-2) and later 10

classroom sets of Apple iPads

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher Lesson plans

Objective: Content delivered in new, engaging and innovative manner.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
K-2 classrooms will use legacy Dell Netbooks and mobile labs to deliver Journeys, Go Math!, FASTT Math and Scholastic News with SMART Boards (all K-2 classrooms equipped with SMART Boards Spring 2016)	Curriculum Supervisors, Building Principal and Teachers	09/2016	Teacher lesson plans
K-2 All teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2016 - 06-2019 ongoing	Teacher lesson plans
Classroom sets (10) of iPads in every classroom leveraging wireless technology to provide flexible mobility. Innovative methodologies and classroom management strategies will be employed in all curriculum content areas, allowing students to routinely use technology in their pursuit of knowledge and the development of required skills.	Curriculum Supervisors, Building Principal and Teachers	06/2018	Teacher lesson plans

Goal 2: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Professional Development on SAMR model, and new FASTT Math application	Ongoing training
1	Continued professional development for teachers and staff in Apple education products and instructional strategies.	Ongoing training
2	Professional development on cyber safety and digital citizenship	Ongoing training

Budget

Goal No.	Activity	Funding Source (Federal/State/Private)	Amount
1	Classroom sets (10) of iPads in every classroom	State State	\$7,000 x17 classrooms=\$119,000

Reflection and Adjustment - Crichton Elementary

Each year, district timelines and project completion will be assessed. Budgeting constraints may require realignment of resources and adjustment of timelines. Additionally, SDA timelines on demolition and reconstruction at the Crichton / Denbo complex will certainly affect timelines and students and staff are displaced to swing space for the construction period. Teacher's lesson plans will be monitored by the curriculum supervisors and administration on an ongoing basis to assess progress on the SAMR continuum and refocus professional development as needed, with the ultimate goal of transforming instruction with technology rather than simply enhancing it.

Implementation Planning – School-Based Table

School: Denbo Elementary – Grades 3-5

NJTRAX PARCC Readiness Rating: 9 NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Refine and incorporate new and legacy curriculum to new Apple platform (3-5)

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher lesson plans

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
3-5 classrooms will use iPads, Apple TV's and SMART Boards to integrate Journeys, FASTT Math, Go! Math, TIME for Kids, Notability, Pages and Apple Classroom management tools	Curriculum Supervisors, Building Principal and Teachers	09/2017	Teacher lesson plans
3-5 All teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2017 - 06-2019 ongoing	Teacher lesson plans

Goal 2: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Continued professional development for teachers and staff in Apple education products and instructional strategies.	Ongoing training
1	Professional Development on SAMR model, and new FASTT Math application	Ongoing training
2	Professional development on cyber safety and digital citizenship	Ongoing training

Budget

Goal No.	Activity	Funding Source	Amount
		(Federal/State/Private)	
1	Classroom sets (10) of iPads in every classroom	State	\$7,000 x 19 classrooms=\$133,000

Reflection and Adjustment - Denbo Elementary

Each year, district timelines and project completion will be assessed. Budgeting constraints may require realignment of resources and adjustment of timelines. Additionally, SDA timelines on demolition and reconstruction at the Crichton / Denbo complex will certainly affect timelines and students and staff are displaced to swing space for the construction period. Teacher's lesson plans will be monitored by the curriculum supervisors and administration on an ongoing basis to assess progress on the SAMR continuum and refocus professional development as needed, with the ultimate goal of transforming instruction with technology rather than simply enhancing it.

Implementation Planning - School-Based Table

School: Stackhouse Elementary – Grades 3-5

NJTRAX PARCC Readiness Rating: 9

NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Refine and incorporate new and legacy curriculum to new Apple platform (3-5)

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher lesson plans

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
3-5 classrooms will use iPads, Apple TV's and SMART Boards to integrate Journeys, FASTT Math, Go! Math, TIME for Kids, Notability, Pages and Apple Classroom management tools	Curriculum Supervisors, Building Principal and Teachers	09/2017	Teacher lesson plans
3-5 All teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2017 - 06-2019 ongoing	Teacher lesson plans

Goal 2: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, Teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Goal 3: Install SMART Boards in all grade 3-5 classrooms

Strategy: All grade 3-5 classrooms are equipped with SMART Board technology Indicator: SMART Board installed

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Complete installation of SMART Board technology in all remaining 3-5 classrooms	District Information Officer and vendor	09/2017 - 06/2019	Installed SMART Board

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Continued professional development for teachers and staff in Apple education products and instructional strategies.	Ongoing training
1	Professional Development on SAMR model, and new FASTT Math application	Ongoing training
2	Professional development on cyber safety and digital citizenship	Ongoing training
3	Professional development on SMART Technologies	Ongoing training

Budget

Goal No.	Activity	Funding Source	Amount
		(Federal/State/Private)	
1	Classroom sets (10) of iPads in every classroom	State	\$7,000 x 15 classrooms=\$105,000
3	Install 9 additional SMART Boards	State	\$4,300 x 9 = \$38,700

Reflection and Adjustment - Stackhouse Elementary

Implementation Planning - School-Based Table

School: Harker-Wylie Elementary – Grades K-2

NJTRAX PARCC Readiness Rating: Not tested NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Refine and incorporate new and legacy curriculum to Legacy Dell Netbooks and mobile labs (K-2) and later 10 classroom sets of Apple iPads

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher lesson plans

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
K-2 classrooms will use legacy Dell Netbooks and mobile labs to deliver Journeys, Go Math!, FASTT Math and Scholastic News with SMART Boards (all K-2 classrooms equipped with SMART Boards Spring 2016)	Curriculum Supervisors, Building Principal and Teachers	09/2016	Teacher lesson plans
K-2 All teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2016 - 06-2019 ongoing	Teacher lesson plans
Classroom sets (10) of iPads in every classroom leveraging wireless technology to provide flexible mobility. Innovative methodologies and classroom management strategies will be employed in all curriculum content areas, allowing students to routinely use technology in their pursuit of knowledge and the development of required skills.	Curriculum Supervisors, Building Principal and Teachers	07/2018	Teacher lesson plans

Goal 2: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, Teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Professional Development on SAMR model, and new FASTT Math application	Ongoing training
1	Continued professional development for teachers and staff in Apple education products and instructional strategies.	Ongoing training
2	Professional development on cyber safety and digital citizenship	Ongoing training

Budget

Goal No.	Activity	Funding Source (Federal/State/Private)	Amount
1	Classroom sets (10) of iPads in every classroom	State	\$7,000 x 16 classrooms=\$112,000

Reflection and Adjustment - Harker-Wylie Elementary

Implementation Planning – School-Based Table

School: Helen Fort / Newcomb Middle School - Grades 6-8

NJTRAX PARCC Readiness Rating: 9 NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Implement one-to-one Apple iPad initiative in grades 6-8

Strategy: 1025 iPads introduced to students in Fall 2016 Indicator(s): iPads procured

Objective: To promote student engagement and 21st century skills using iPads in a one-to-one setting

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Procure and configure 905 Apple iPad Air 2 with 750 keyboards for ELA classrooms (120 already procured as part of pilot)	District Information Officer and Computer Services Staff	Summer 2016	Purchase order to Apple
Continued professional development for teachers and staff in Apple education products and instructional strategies.	Apple Education Staff and Educational Technology Facilitator	09/2016 - 06/2017	External and Internal led workshops
Vetting of instructional and administrative apps	Administration and curriculum supervisors	07/2016 - 06/2017	App selection and load to devices

Goal 2: Refine and incorporate new and legacy curriculum to new Apple platform

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher lesson plans

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
6-8 classrooms will use iPads, Apple TV's and SMART Boards to integrate new ELA digital learning platform piloted in Spring 2016 - Study Sync	Curriculum Supervisors, Building Principal and Teachers	09/2016	Teacher lesson plans
6-8 All teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2016 - 06-2019 ongoing	Teacher lesson plans
6-8 Pilot of new Math digital learning platform	Curriculum Supervisors, Building Principal and Teachers	Spring 2017	Teacher lesson plans and evaluation findings
6-8 Connect-ED, Learnsmart Science pilot	Curriculum Supervisors, Building Principal and Teachers	Spring 2017	Teacher lesson plans and evaluation findings
6-8 pilot Social Studies digital learning platform	Curriculum Supervisors, Building Principal and Teachers	Fall 2017	Teacher lesson plans and evaluation findings

Goal 3: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, Teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Goal 4: Implement Edmentum and Plato Courseware for intervention in I/E class period

Strategy: Use Edmentum and Plato diagnostic and formative assessments to help teachers understand each student's needs to guide instruction.

Indicator(s): Teachers focusing instruction with personalized learning paths.

Objective: Students receive prescriptive instruction skipping skills they have mastered and moving forward to acquire new skills

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
In Intervention and Enrichment periods students will take Edmentum and Plato assessments provide teachers with data regarding skills to target instruction.	Teachers	09/2016	Edmentum data

Goal 5: Continued Installation on LCD Flat Panel Monitors and Apple TV's

For all classrooms not currently equipped with mounted projection devices, mount flat panel monitors and retrofit Apple TVs to SMART Strategy: Boards.

Indicator(s): All classrooms with mounted projection and Apple TV's

Objective: All teachers have the capability to project concepts and share student work.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Install Flat panel monitor and Apple TV in remaining classroom and upgrade media center.	District Information Officer	12/2016	Vendor PO

Goal 6: Create Capacity for Exposure and Use of 3D Modeling, 3D Scanning, and 3D Printing Technologies in Grades 6-8

Indicator(s): Increased Building Capacity in 3D Technologies and Increased Availability and Awareness for Teachers/Students

Objective: Interested teachers and students will have access to 3D Modeling Software, 3D scanning equipment, and 3D printing facilities.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Establish 3D printing capacity incrementally based on demand and pace of rollout of STEM outreach program	Curriculum Supervisor, Technology Coordinator and Teachers	Fall 2016	3D Printers
Establish a 3D scanner capacity incrementally based on demand and rollout of STEM outreach program	Curriculum Supervisor, Technology Coordinator and Teachers	Fall 2016	3D Scanners
Continue Robotics Summer Camp for Grades 6-8 with the assistance of High School A-STEM students	Curriculum Supervisor, Technology Coordinator and Teachers	Summer 2016	Rosters
Expand Access to 3D Technologies for Grades 6-8 during the school year by expanding club opportunities and STEM outreach	Curriculum Supervisor, Technology Coordinator and Teachers	2016-2017	Club meetings
Deploy the Apple versions of standard A-STEM suite of modeling software for students in any course or club interested in using these technologies	Curriculum Supervisor, Technology Coordinator and Teachers	2016-2017	No software costs - free educational use

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Continued training on Apple educational projects	Ongoing by in-house Apple Certified Trainer
2	Training turn-keyed by pilot teachers	Ongoing
3	Parent, staff and student presentations	Ongoing
6	Transfer knowledge from HS STEM Teachers to MS Teachers	Ongoing

Budget

Goal No.	Activity	Funding Source	Amount
		(Federal/State/Private)	
1	One-to-one iPads 6-8 and apple VT's	State	\$585,000
2	Study Sync 6-8 implementation	State	\$70,000
5	LCD TV's	State	\$8,240
6	30D Printer and Scanner	State	5,000

Reflection and Adjustment - Helen Fort / Newcomb Middle School

Implementation Planning – School-Based Table

School: Pemberton Township High School – Grades 9 - 12

NJTRAX PARCC Readiness Rating: 9 NJTrax Digital Learning Readiness Rating: N/A

Goal 1: Continued Implement one-to-one Dell Tablet initiative in grades 9-12

Strategy: All HS students who sign agreements will be issued Dell tablet Indicator(s): Tablets procured

Objective: To promote student engagement and 21st century skills using iPads in a one-to-one setting

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Procure and configure an additional 250 new Dell tablets for incoming freshmen	District Information Officer and Computer Services Staff	Summer 2016	Purchase order to Dell
Continued professional development for teachers and staff in instructional strategies.	Educational Technology Facilitator	09/2016 - 06/2019	External and Internal led workshops
Vetting of instructional and administrative digital learning platforms	Administration and curriculum supervisors	07/2016 - 06/2017	Device configuration

Goal 2: Refine and incorporate new and legacy curriculum to new digital platform

Strategy: Adjust delivery of new and legacy materials Indicator(s): Teacher lesson plans

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
9-12 All teachers begin to assess their digital learning activities in terms of the SAMR model (Substitution, Augmentation, Modification or Redefinition) and continue to move along the scale while teaching with technology to improve student engagement.	Curriculum Supervisors, Building Principal and Teachers	09/2016 - 06-2019 ongoing	Teacher lesson plans
9-12 Pilot of new Math digital learning platform	Curriculum Supervisors, Building Principal and Teachers	Spring 2017	Teacher lesson plans and evaluation findings
Study Sync ELA pilot Fall 2016 for implementation Fall 2017	Curriculum Supervisors, Building Principal and Teachers	09/2017 - 09.2017	Teacher lesson plans and evaluation findings
Study Island & Math IXL delivered digitally for Math prep courses	Curriculum Supervisors, Building Principal and Teachers	Fall 2016	Teacher lesson plans and evaluation findings

Goal 3: Promote Digital Citizenship and Cyber-Safety for all staff and students

Strategy: Make students and staff aware of potential consequences and longevity of digital footprint Indicator: Safe and responsible computing.

Objectives: All students and staff engage in responsible and safe social media and Internet browsing and posting.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
All student and staff are given PD in Good Digital Citizenship and Digital Footprints.	Educational Technology Facilitator, Media Specialist, Reading Specialists	09/2016 - 06/2019	Workshops
All parents are educated in Cyber Safety and social media	Building Principal, Teachers and Educational Technology Facilitator	09/2016 - 06/2019	Parent workshops and PTO meetings

Goal 4: Continued implementation of Google Classroom

Strategy: Use Google classroom and google docs in conjunction with Blackboard Learn to deliver instruction and create digital workflow

Indicator(s): Teachers focusing instruction using online learning resources to engage students

Objective: Students are engaged and motivated while moving forward to acquire new skills

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Instructional augmented with Google classroom resources	Teachers	09/2016	Lesson Plans

Goal 5: Continued Installation on LCD Flat Panel Monitors and Apple TV's

Strategy: For all classrooms not currently equipped with mounted projection devices, mount flat panel monitors and retrofit Apple TVs to SMART

Boards.

Indicator(s): All classrooms with mounted projection and Apple TV's

Objective: All teachers have the capability to project concepts and share student work.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Install Flat panel monitor and Apple TV in remaining classroom and upgrade media center.	District Information Officer	12/2016	Vendor PO

Goal 6: Support Expanded Use of 3D Modeling, 3D Scanning, and 3D Printing Technologies in STEM Engineering Courses and Support its use in the Arts and other High School Programs

Indicator(s): Increased Building Capacity in 3D Technologies and Increased Availability and Awareness for Teachers/Students

Objective: Interested teachers and students will have access to 3D Modeling Software, 3D scanning equipment, and 3D printing facilities.

Projects/Activities (include the steps required to ensure activity completion	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Timeline (mm/yr. span)	Resources
Expand 3D printing capacity incrementally (at a rate of at least 3 printers per year) to handle additional demand and outreach efforts	Curriculum Supervisor District Information Office	09/2016	3D Printers
Establish a 3D scanner capacity incrementally (at a rate of at least 3 scanners per year) to handle additional demand and outreach efforts	Curriculum Supervisor District Information Office	09/2016	3-D Scanners
Deploy the standard A-STEM suite of modeling software for students in any course interested in using these technologies	Curriculum Supervisors Teachers	09/2016	No software costs - free educational use

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
2	Pilot programs professional development delivered by vendors	Ongoing and turn-key training for selected vendor
3	Staff, student and parent presentations on digital citizenship	Ongoing
4	Continued "Tablet Tuesday" workshops by Ed. Tech Facilitator	Ongoing

Budget

Goal No.	Activity	Funding Source	Amount
		(Federal/State/Private)	
1	Dell Tablets to incoming Freshmen	State	\$289,263
5	24 LCD Monitor and Apple TV's installed	State	\$100,500
6	3-D printing and Scanning	Federal (Perkins)	\$10,500

Reflection and Adjustment - Pemberton Township High School