Florham Park Public Schools

Technology Plan
For Digital Learning
2016-2019

Table of Contents

I agree to the contents in this educational plan, and the assurance that I will be involved in the implementation of this Technology Plan for Digital Learning. Involvement in the implementation of this Plan may include: reviewing the progress of meeting the goals and objectives, being responsible for completing one or more activities in the action plan, participating in the revisions of the plan. Stakeholders associated with the district and school levels (i.e., each principal from targeted schools) should sign.

Stakeholder Name	Stakeholder Title	Stakeholder Signature
Dr. Melissa Varley	District Superintendent	
John Csatlos	Business Administrator	
Peter Christ	Principal, Ridgedale	
Dr. Steven Caponegro	Principal, Brooklake	
Sherri Glaab	Principal, Briarwood	
Brian Silkensen	Supervisor of Curriculum and Instruction	
Nick Esposito	Tech Integration Specialist/ Computer Teacher	
James Stiles	Technology Coordinator	

Technology Plan Components Checklist

This form may be used to ensure all components are addressed in the submitted document for review. Please address the areas below for each school that will be the focus for digital learning transformation over the next three years in the technology plan.

County/District Code: 27/1530

School /Charter School/Renaissance School: Florham Park Public Schools (Ridgedale Middle School, Brooklake Elementary School, Briarwood Elementary School)

NJTRAx PARCC Technology Readiness Rating: 9

NJTRAx Digital Learning Readiness Rating: n/a
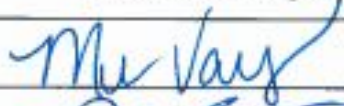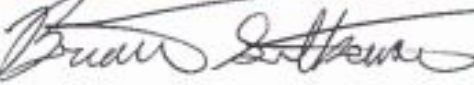
STEP		YES	NO
1.	The District-level vision is included in the School-based Plan.	YES	
2.	NJTRAx technology readiness system for this school was updated.	YES	
3.	NJTRAx Digital Learning surveys for this school was completed, if applicable.		NO
4.	School-based S.M.A.R.T. Goals, Strategies, Objectives and Indicators that evaluate the completion and success of the goal(s), strategies, and objectives are included for this school.	YES	
5.	The action plan identifies the person(s) responsible for ensuring goals, strategies and objectives are completed within the specified time frames.	YES	
6.	The submitted plan addresses the task of reflecting on the results of the activities, and adjusting the plan accordingly for this school at targeted time intervals.	YES	
7.	A budget is included that supports the activity plan.	YES	
8.	The plan for digital learning through the infusion of technology within instruction and/or the curriculum is clearly understood in this school.	YES	
9.	The signed STAKEHOLDER ASSURANCE is included.	YES	

Introduction

It has been 23 years since the first state mandated technology plan was created here in Florham Park. Since that time the district has made incremental changes in the use and access to educational technology to support the educational process. In the early years, technology was another skill, process or thing to learn for both the students and the faculty. Twelve years later the technology was seen as a tool that every teacher needed to know how to use and the teaching landscape changed in Florham Park as each teacher, first in the middle school, then in the district received a dedicated laptop. This tool was now necessary as attendance, grading, and lesson planning were all done in a digital format. Additionally, more and more computers were made available for student use.

The classrooms have changed as technology has become more readily available. Technology has challenged the old traditional teaching methods. Teachers would use a presentation software to deliver notes to the class, while students were asked to complete technology projects rather than projects about a content area using technology. At this point, the district moved to emphasize problem-based learning approach when utilizing technology to move past assigning technology projects. At the same time the district introduced a set of standards to build common language and approaches to using technology with students. The LoTi (Levels of Technology Implementation) provided the district with a way to help all teachers and administrators have a common understanding of meaningful technology integration. Now, in the last 8 years the changes in our society have accelerated further to include everyday use of the Internet, to consume, produce and interact with information in complex ways. In the process, we have seen significant changes in our global economy. What was once the need for education to serve a traditional industrial economy changed a need to address the challenges of an information society. These changes in our global economy have fueled a need for our educational system to prepare students to meet the new challenges of higher education and the workplace. This educational shift includes an expectation that students demonstrate academic achievement through rigor and 21st century learning as outlined in the Common Core Standards. The introduction of powerful, affordable Chromebooks and tablet computers and an emerging infrastructure that provides anytime/anywhere access has resulted in a tipping-point moment in education – a game-changer in the use of educational technology to affect student learning needs and outcomes. This Technology Plan was developed to provide an outline for the infrastructure, development and preparation for Common Core Standards and the Partnership for Assessment of Readiness for College and Careers (PARCC). This plan builds upon the district's previous 2013-16 state-required Technology Plan through research-based, best practices for proper technology integration and strategies to purposefully use

technology to support student achievement. In order for our students to be prepared for the skills of the future, they will need to be fully immersed in the technology based environment.

Technology Mission Statement

The Florham Park School District is committed to promoting intellectual, ethical and social growth within a dynamic educational community in order to develop knowledgeable, productive and caring citizens. Because technology plays a vital role in the teaching and learning process, our students will have an active role in their learning through the skilled and appropriate use of technology and be well prepared to meet future educational challenges.

Vision Statement

Technology has fueled a fundamental change that has led to the development of an interdependent, global society. This transformation necessitates a shift in instructional approaches in which technology is seamlessly integrated. Today's students require an engaging and empowering learning experience, resulting from a rich curriculum that allows for interdisciplinary, personalized, inquiry‑based learning in which the teacher is the facilitator. Students will be expected to collaborate with others both locally and globally through digital media, seek, evaluate, and synthesize information from a variety of online resources, solve problems using electronic tools, and express their ideas through multiple modes of communication. Florham Park Schools will provide access to and instruction on technology and digital resources, allowing for students to develop the necessary skills, knowledge and capacities to ensure that they are successful beyond our educational setting.

Belief Statements

1. All students must have the knowledge and competencies necessary to function in an increasingly technological age.

2. Educational technology, when used appropriately, improves performance, increases achievement and expands the knowledge of both the student and the teacher.

3. The financial commitment of the school district to technology must be continual, realistic, and ongoing.

4. Technology should be equally accessible for all members of the school community.

5. All students must be provided the opportunities to access, process, create and communicate using various technologies.

6. Technology used in the learning process is project/problem based.

7. Technology instruction must include an understanding of the responsible use of all forms of technology including the social, ethical and legal aspects.

8. Technology integration is an essential component in the school improvement process.

9. The district will align itself with the Common Core Standards and online testing methodology that cannot be completed without student access to these technologies.

10. Technology enables teachers the flexibility to manage a learning environment that can be student-centered and individualized where students can move through curriculum based on the their needs.

Current Practices

Technology plays in important role in the education of our students. Staff and students utilize a wide range of devices including but not limited to Chromebooks, Macs (desktops and laptops) and iPads. Nearly every classroom is equipped with an interactive board (Activboard, SMARTboard or Epson Brightlink) as well as a sound system. Teachers are provided 13"Macbook Pros for instruction. Other equipment in use includes document cameras, cameras, video cameras. Wireless access is available in all rooms/buildings with a 300 Mbps internet connection.

Educational Environment

All students in grades K-8 are provided filtered internet access. Students in grades 3-8 are provided Google Apps for Education (GAFE) accounts with storage to save, share documents and collaborate with their peers and teachers. Currently, the Florham Park Public Schools provides students with a combination of computer labs, mobile laptop / Chromebook carts and iPad carts and centers. The district is planning a 1:1 Chromebook rollout for all 6th Grade students for the 2016-17 SY. This initiative will expand to Grades 6 and 7 in the 2017-18 SY and Grades 6, 7, and 8 in the 2018-19 SY. Therefore all students in grades 6-8 will be issued a district Chromebook in the 2018-19 school year.

In the K-2 elementary school, every student has access to an iPad in their classroom with approximately 6 iPads available in each homeroom for student-centered learning. There are also two computers labs available for instructional use. In the 3-5 elementary school there is one computer lab with desktop computers. There is also one Chromebook cart of 25 per grade level. Each grade level also has access to grade-level iPads as well. There is a planned expansion for additional Chromebooks in grade 3-5 in order to prepare a smooth transition to the Middle School. In the Middle School there is currently at least one device per student, with either access to laptops, Chromebooks or iPads available in every classroom. The is also access to desktop computers in the Computer Lab and Media Center.

Needs Assessment 2016-2019

Assessment

Assessing the district's technology needs is an ongoing process. Some of the factors that figure into this process include the following:

- District Goals / Vision
- Surveys / discussions with district teaching staff and administrators regarding technology use.
- Changes in curriculum and instruction that dictates a change in Technology practices and implementation.
- Research and assessment done by the Technology Department to recommend best practices and any required changes to district's technology infrastructure.
- Collaboration with other school districts and vendors to keep up to date with digital and technology trends.
- State/federal mandated digital assessment modifications (ex. PARCC, NJASK)

Needs

- Chromebooks to maintain and support district's 1:1 initiative.
- Additional Chromebooks for Brooklake (3-5) for instructional purposes.
- Evaluate any required hardware updates to iPads in Briarwood (K-2).
- Maintain district's current equipment and infrastructure and replace as needed/required.
- Software / Hardware upgrades and maintenance - Includes but not limited to: Classroom Management Systems, content filtering, security, servers, computers, interactive boards, phones.
- Ongoing staff development to support district's technology integration.
- Investigate upgrade to aging phone system.
- Continue to provide enough equipment for PARCC / i-Ready testing.
- Evaluation of technology staffing as district technology needs / growth increase.
- Evaluation and review of district technology for budgeting purposes.
- Maintain district computer lab equipment.
- Increase quantity and quality of internal security cameras / system.

Educational Technology Plan Evaluation Narrative
Describe the process to regularly evaluate this plan as <u>effectively</u>. . .

a. Telecommunication services, hardware, software and other services are improving education.	Communication / meetings between the District Technology Coordinator, Supervisor of Curriculum and Instruction, Building Administration, Supervisor of Buildings and Grounds, Business Administrator and Superintendent will evaluate this plan and the effectiveness of meeting its goals and objectives. Telecommunication services, hardware, software and other services will be evaluated on an ongoing basis based on communication and feedback. Current and emerging technologies will be discussed.
b. Effective integration of technology is enabling students to meet challenging state academic standards.	Feedback from Staff / Administration Professional Development / Ongoing staff training Results of State mandated digital testing Digital Benchmarking Assessments Formative and summative assessments administered digitally Digital portfolios demonstrating technology literacy
c. The LEA is meeting the identified goals in the educational technology plan.	Communicate regularly with administrators and teachers to evaluate progress in meeting identified goals not only in this plan, but plans for the future as well. As technology and district needs change components of this plan may need to be revised. New goals and objectives may be created if required based on the changing environment.

School /Charter School/Renaissance School (SCHOOL NAME): Florham Park Public Schools (Ridgedale Middle School, Brooklake Elementary School, Briarwood Elementary School)

NJTRAx PARCC Readiness Rating: 9   **NJTRAx Digital Learning Readiness Rating: n/a**

Goal 1:   All staff and students will use technology resources appropriately to support the Common Core Standards and transform the learning environment.

Strategy: Continue to develop the necessary technology skills to use technology effectively in the areas of, but not limited to:

- Asynchronous Learning

- Globalizing the Curriculum

- Creation, Collaboration and Publication of Digital Content

Technology usage will be infused into normal daily activities.

Institute a culture of digital responsibility, citizenship and appropriate usage.

Ensure that students in grades 5-8 have access to appropriate technology to fulfill the needs of the curriculum.

Indicator(s): Teacher lesson plans with evidence of technology integration, student work demonstrating 21st Century skills, workshop and/or attendance data

Objective: All staff and students will use technology resources appropriately to support the Common Core Standards and transform the learning environment.

Plan:

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 teachers will be offered access to a course management system that can create a blended learning environment the utilizes forums, chats, wikis, class content, and web based assessments. 1. All teachers will have access to video conference software to interact with peer classes, engage an expert or present to an authentic audience.	Technology Coordinator, Building Principal, Business Administrator	09/2016-06/2019	Video conference software and video devices, Learning management systems, Cloud-based application and storage
Students will take a mini-course on proper etiquette for using technology equipment as well as ethical behavior	Technology Coordinator Building Principal, Business Administrator	09/2016-06/2019	Learning management system with the necessary digital content

while working with web resources. Upon completion, students will be awarded a "Driver's License" and be expected function appropriately otherwise loss of the license is possible. 1. An internet safety unit will be carried out at every grade level and will cover cyber bullying, protecting personal information, online etiquette, social media protocols, cell phone protocols, email protocols, and the dangers that exist. 2. Access to Internet Safety program and materials will be available online and a community program will be offered by the police			
All students in grades 6-8 will have technology assigned to them through district's 1:1 Chromebook initiative	Technology Coordinator, Building Principal, Business Administrator	09/2016-06/2019	Chromebook 1:1 device
1. Continue to purchase on-line databases for research. 2. Continue to purchase online content providers, such as, BrainPop, United Streaming, Enchanted Learning, etc. 3. Continue to Purchase software with a movement towards investing in cloud based software, such as IXL.com for math and Gizmos for Science.	Technology Coordinator, Business Administrator	09/2016-06/2019	On-line databases and software

Goal 2: The district will foster and support staff development opportunities to ensure a technology literate staff.

Strategy: 2.1 Continue to offer a wide variety of staff development and technology training opportunities.

2.2 Offer mandatory essential training of staff with the implementation of new technology initiatives.

2.3 Continue to provide and increase support to all staff through site-based resource personnel.

Indicator(s): Workshop and/or attendance data

Objective: The district will foster and support staff development opportunities to ensure a technology literate staff.

Plan:

Projects/Activities (include the steps required to ensure activity completion)	Person responsible for completion of activity and those responsible for	Timeline (mm/yr span)	Resources

	reviewing or approving the activity to move forward		
1. Continued professional development offered in the areas of using tools and integration strategies and problem-based learning, supplemented Atomic Learning Instructional tutorials and Integration strategies 2. There will faculty meeting for sharing grade-level best practices in technology integration projects and ideas. Teachers will be connected with available resources in the district, which include the IDE Portal, Atomic Learning. etc. 3. Teachers will review the iSearch research model the district has adopted and utilize faculty meetings and team meetings to ensure all students are following process. Additionally look to the media center website for ideas, tips and strategies for using this method.	Principals, Tech Coordinator/Media specialist Supervisor of Curriculum and Instruction	09/2016-06/2019	1. PD Certificates 2. Lesson plans 3. Portfolios 4. Tech sign-in sheets
1.Teachers in grades 5-8 will be trained in methods of blended learning and the concepts of a flipped classroom. 2. Teachers in grade K-8 will receive training on ways to effectively and efficiently using the the GAFE to deliver interactive content	Principals, Tech Coordinator/Media specialist Supervisor of Curriculum and Instruction	09/2016-06/2019	1. PD Certificates 2. Lesson plans 3. Portfolios 4. Tech sign-in sheets

Goal 3: FPKS educators will utilize technology to better assess and evaluate student performance.

Strategy: 3.1 Use technology to align math, language arts, science instruction in grades K-8 and better prepare students for NJASK test and PARCC test.

3.2 Use technology to compile and analyze data to track and monitor student growth through diagnostic benchmark assessments.

Indicator(s): Teacher lesson plans with evidence of technology integration, student work demonstrating 21st Century skills, team meeting attendance data, collected shared data resources used for driving instruction

Objective: FPKS educators will utilize technology to better assess and evaluate student performance.

Plan:

Projects/Activities (include the steps	Person responsible for	Timeline	Resources

required to ensure activity completion)	completion of activity and those responsible for reviewing or approving the activity to move forward	(mm/yr span)	
All administrators, teachers, and students to have the same technology platforms to allow for consistent implementation for all subject areas.	Principals, Tech Coordinator, Supervisor of Curriculum and Instruction	09/2016 - 06/2019	Cloud-based application and storage
Teachers are provided the necessary technology and training to create assessments that are aligned and simulate the same format as the PARCC and NJASK tests.	Principals, Tech Coordinator, Supervisor of Curriculum and Instruction	09/2016 - 06/2019	Learning management systems, digital diagnostic tools, professional development opportunities
District will provide teachers with multiple online assessments to measure student growth.	Principals, Tech Coordinator/Media specialist, Supervisor of Curriculum and Instruction	09/2016 - 06/2019	Diagnostic, Formative, & Summative Tools
Teachers will have access to various data points and will be able to analyze and track student growth across multiple platforms.	Principals, Tech Coordinator/Media specialist, Supervisor of Curriculum and Instruction	09/2016 - 06/2019	Cloud-based application and storage, digital diagnostic tools

Goal 4: The district will continue to support a well-managed infrastructure, efficient repair procedures, and high speed connectivity to the Internet in all instructional and administrative areas within the district.

Strategy: Monitor bandwidth usage to ensure optimal speed needed to support higher bandwidth applications.

Design, administer, and maintain a secure technology infrastructure with adequate wireless density in all classes and instructional areas to support the district's 1:1 initiatives.

Provide appropriate personnel necessary to administer and maintain a secure technology infrastructure.

Maintain operational and reliable technology equipment in all required areas of the district.

Indicator(s): Near 100% network uptime, technology repair response time, increased student to device ratios, monitor bandwidth to the internet, successful implementation of 1:1

Objective: The district will continue to support a well-managed infrastructure, efficient repair procedures, and high speed connectivity to the Internet in all instructional and administrative areas within the district.

Plan:

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
Maintain the contracts with Optimum Lightpath for the WAN connections of 1GB between each of the elementary schools back to the middle school.	Technology Coordinator, Business Administrator	09/16-06/19	Optimum Lightpath

Maintain high quality LAN in each building to ensure that network traffic within the building for data and phones travels as needed. Investigate replacement plan for district's network switches::
     a. 3 schools - MDF closet core switches
     b. 3 schools - 4 IDF closet switches
     c. Upgrade backbone connection between switches
     d. Inspect and upgrade as needed the network cabling.
	Technology Coordinator, Business Administrator	09/2017 - 06/2018	Cisco Networking Equipment Installation Configuration Monitoring

Maintain and upgrade at End Of Life devices. The firewall will need to be replaced in the 2016 school year.	Technology Coordinator, Business Administrator	09/2016	Cisco Firewall Installation Configuration Monitoring
Wireless networks (density) should be increased in all three buildings to grow with the amount of devices on the network. Monitor wireless traffic to see if other access points are needed.	Technology Coordinator, Business Administrator	09/2016 - 06/2018	Meru Access Points Installation Configuration
Implement 1:1 program in middle school with Chromebooks	Technology Coordinator Supervisor of Curriculum and Instruction Principal Integration Specialist Teachers	09/2016-06/2018	Chromebooks Staff
Evaluate and maintain district 1:1 program	Technology Coordinator Supervisor of Curriculum and Instruction	09/2016-06/2018	Chromebooks Staff Best Practices Software

	Principal Integration Specialist Teachers		Subscriptions
Explore alternatives to current phone system to maintain district communication system	Technology Coordinator Business Administrator	09/2016-06/2017	
Upgrade district servers on 5 year life expectancy. Investigate server virtualization.	Technology Coordinator, Business Administrator	09/2016 - 06/2019	Servers
Support will be provided to the staff in each of the buildings for assistances with technical issues and technology instructional integration ideas.	Principals/ Tech Coordinator/ Tech Facilitators	09/2016 - 06/2019	Solarwinds - Helpdesk Tech. Dept
Maintain district technology equipment inventory. Evaluate equipment to ensure compatibility with PARCC technology requirements	Technology Coordinator Business Administrator	09/2016-06/2019	Casper (inventory) Google (Admin Console) State requirements

Professional Learning

Goal	Initial Activities	Follow-up Activities
All teachers will receive training on the google environment. The middle school teachers will have extensive training on using google to gain formative assessments to guide instruction, and provide an avenue for collaboration in the classroom.	Training in the use of the google environment will be spotlighted at faculty meetings, discussed at team meetings, and in-depth training will be offered at the summer tech institute. Google trainings certifications will be offered to the teachers of the grades that will be going to the 1 to 1 model.	•A course in our Moodle server will store course materials, discussions about best practices from other teacher classrooms. •Summer training • Team meetings • In-service days.
Summer Institute training	Additional topics to be covered * PLN Networks * iPads in centers * Data-Driven Decisions with Google Spreadsheets(i-Ready and other online Assessments) *Updates to Google Apps (additional tools available) *Learn the structure and procedures with 1:1 *Google Classroom for student management and assessments *Using technology to increase communication and move to student-centered activities *Presentations/Tools	•A course in our Moodle server will store course materials, discussions about best practices from other teacher classrooms. •Summer training • Team meetings • In-service days.
Internal PD for 1:1 grade level	Topics to be covered: ● Classroom setup ● Collaboration opportunities to share successful lessons & pitfalls ● Demo lessons for teachers ● Showcase products to support 1:1 ● Collaboration between teachers and support staff to create products to improve instruction ● Student-centered lessons ● Formative Assessments ● Turnkey lessons learned & modeling lessons to upcoming grade level going 1:1	
Grades K-2 teachers will explore the use of tablet computers in the classroom as a center. Instruction on the use of the tablet to provide differentiation in all content areas and address the 21st Century Skills.	Discussed at team meetings, and ongoing training will be woven into instructional coach trainings.	•Summer tech training •Team meeting •Faculty Meetings •District In-service days •Investigate the need for a District Technology Instructional Specialist
Grades 3-5 teachers utilizing blended learning environments and	•The use of blended learning and then flipped classroom will be spotlighted at faculty meetings,	

flipped classroom concepts	discussed at team meetings, and in-depth training •Identifying and using digital content from sources such as iTunes U, Khan Academy, LearnZillion or creating digital content with district owned tools.	
Grades 6-8 teachers utilizing blended learning environments and flipped classroom concepts	•The use of blended learning and then flipped classroom will be spotlighted at faculty meetings, discussed at team meetings, and in-depth training will be offered at the summer tech institute. •Identifying and using digital content from sources such as iTunes U, Khan Academy, LearnZillion or creating digital content with district owned tools.	•Summer tech training •Team meeting •Faculty Meetings •District Inservice days • A course will be created in Moodle for resources, ideas and best practices.

Three-Year Technology Plan Inventory Table

Area of Need	Year 1 (16-17)	Year 2 (17-18)	Year 3 (18-19)
Technology Equipment including assistive technologies	• Purchase and deploy up to 110 Chromebooks to incoming 6th grade - Purchase 25 Chromebooks for 5th grade • Redistribute 6th grade devices from (15-16 SY) to 3rd-5th grade level • Maintain / replace district interactive boards - Purchase 10 iPads to round out Briarwood iPad Carts - Purchase 2 servers to replace end-of-life servers • Maintain existing equipment Replace 4 district printers	• Purchase and deploy up to 125 Chromebooks to incoming 6th grade - Purchase 25 Chromebooks for 5th grade • Maintain all 7th grade 1:1 devices • Redistribute 7th grade devices from (16-17 SY) to 3rd-5th grade level • Maintain / replace district interactive boards • Maintain existing equipment • Replace iMacs (4) in Board Office • Replace (3) district Nurse's laptops - Replace 4 district printers - Purchase 2 servers to replace end-of-life servers	• Purchase and deploy up to 120 Chromebooks to incoming 6th grade - Purchase 25 Chromebooks for 5th grade • Maintain all 7th and 8th grade 1:1 devices • Redistribute 8th grade devices from (17-18 SY) to 3rd-5th grade level • Maintain /replace district interactive boards • Maintain existing equipment • Refresh teacher laptops in Middle School - investigate device options -Replace 4 district printers - Purchase 2 servers to replace end-of-life servers - Evaluate touchscreen device options for K-2 building
Networking Capacity	• Network projects as needed in all buildings. Switches, routers, etc. will be replaced as needed. Upgrade Firewall for district.	• Evaluate upgrade building switches, routers • Increase the internal backbone to 10Gb	• Network projects as needed in all buildings. Switches, routers, etc. will be replaced as needed.
Filtering Method	• iBoss Content Filter Appliance • Securly for Chromebooks	• iBoss Content Filter Appliance • Securly for Chromebooks - Investigate options	• iBoss Content Filter Appliance • Securly for Chromebooks - Investigate options
Software used for curricular support and filtering	• MS Office yearly Maintenance •Gizmo simulations for science •IXL Math Software for Grades 3-8 - GAFE •Maintain Library databases and search tools - Upgrade Alexandria • i-Ready benchmark Software •Brainpop Subscription •Various building specific subscriptions.	• MS Office yearly Maintenance •Gizmo simulations for science •IXL Math Software for Grades 3-8 - GAFE •Maintain Library databases and search tools • i-Ready benchmark Software •Brainpop Subscription •Various building specific subscriptions.	• MS Office yearly Maintenance •Gizmo simulations for science •IXL Math Software for Grades 3-8 - GAFE •Maintain Library databases and search tools • i-Ready benchmark Software •Brainpop Subscription •Various building specific subscriptions.

Technical Support and maintenance	• PowerSchool Maintenance •Google Apps email Archiving •Cisco Switch Maintenance •Meru Wireless Maintenance •PowerSchool Consultant •iBoss Subscription •GoGuardian Licensing •Securly Licensing •PowerSchool Hosting • Jamf Software Maintenance for Mac / iPad management • Stewart Business Systems for printer maintenance and supplies. - Network Support - Helpdesk Maintenance • School Messenger - emergency/parent communications •InfoSnap for registration automation	• PowerSchool Maintenance •Google Apps email Archiving •Cisco Switch Maintenance •Meru Wireless Maintenance •PowerSchool Consultant •iBoss Subscription •GoGuardian Licensing •Securly Licensing • PowerSchool Hosting • Jamf Software Maintenance for Mac / iPad management • Stewart Business Systems for printer maintenance and supplies. - Network Support - Helpdesk Maintenance • School Messenger - emergency/parent communications •InfoSnap for registration automation	• PowerSchool Maintenance •Google Apps email Archiving •Cisco Switch Maintenance •Meru Wireless Maintenance •PowerSchool Consultant •iBoss Subscription •GoGuardian Licensing •Securly Licensing • PowerSchool Hosting • Jamf Software Maintenance for Mac / iPad management • Stewart Business Systems for printer maintenance and supplies. - Network Support - Helpdesk Maintenance • School Messenger - emergency/parent communications •InfoSnap for registration automation
Telecommunications equipment and services	• Optimum Lightpath for bandwidth and Voice 300 MB fiber optic connection to provider, 1GB connection to elementary school for WAN. • Evaluate district's bandwidth usage and increase capacity if necessary	• Optimum Lightpath for bandwidth and Voice 300 MB fiber optic connection to provider, 1GB connection to elementary school for WAN. • Evaluate district's bandwidth usage and increase capacity if necessary	• Optimum Lightpath for bandwidth and Voice 300 MB fiber optic connection to provider, 1GB connection to elementary school for WAN. • Evaluate district's bandwidth usage and increase capacity if necessary

Budget

Three-Year Technology Plan Anticipated Funding Table

(2016-17)

ITEM	DESCRIPTION OF ITEM TO BE PURCHASED	FEDERAL FUNDING (EST)	STATE FUNDING (EST)	FUNDING (EST)
Digital curricula	Databases			$5,500.00
	United Streaming			$3,200.00
	Tech Literacy Assessment			$800.00
	Brainpop			$2,800.00
	IXL.com			$7,000.00
	i-Ready			$23,200.00
	Smart Music			$7,500.00
	Gizmos			$3,000.00
	NewsELA			$6,300.00
	Learning A-Z			$6,800.00
Technology Equipment	1:1 Chromebooks / Protection Plan / Cases			$48,000.00
	Gr. 3-5 Chromebooks (Cart-based)			$7,700.00
	CB Cart			$1,600.00
	CB Chargers			$750.00
	Replacement Servers			$1,400.00
	iPads / Accessories			$5,000.00
	Laptop / Misc Supplies			$10,000.00
	Video / Camera Equipment			$1,200.00
	4 New District Printers			$2,000.00
Network	Maintenance Agreements for District Firewall / Switches			$6,000.00
	Wireless Network Maintenance			$4,600.00
	Wired Network Maintenance			$5,000.00
Capacity	ISP Provider for 300MB of Data and Voice - Fiber WAN Connections			$55,000.00
Filtering	Securly			$1,400.00
Software	Library Media Software			$2,550.00
	GoGuardian			$850.00
	Network Software			$1,000.00

	Curriculum Based Software / Apps			$10,500.00
	Virtualization Software			$570.00
Maintenance	JAMF Software			$9,500.00
	District Helpdesk Maintenance			$130.00
	SIS Maintenance / Services			$12,800.00
Upgrades	District Firewall			$12,000.00
Policies and Plans				
Other Services	Online Registration			$8,400.00
	Repairs			$11,000.00
	Atomic Learning			$2,400.00
	IDE Portal			$1,100.00
	Notification System			$2,000.00
	Survey Software			$300.00

Three-Year Technology Plan Anticipated Funding Table

(2017-18)

ITEM	DESCRIPTION OF ITEM TO BE PURCHASED	FEDERAL FUNDING (EST)	STATE FUNDING (EST)	FUNDING (EST)
Digital curricula	Databases			$5,500.00
	United Streaming			$3,200.00
	Tech Literacy Assessment			$800.00
	Brainpop			$3,200.00
	IXL.com			$7,000.00
	i-Ready			$23,200.00
	Smart Music			$7,500.00
	Gizmos			$3,000.00
	NewsELA			$6,300.00
	Learning A-Z			$6,800.00
Technology Equipment	1:1 Chromebooks / Protection Plan / Cases			$51,000.00
	Gr. 3-5 Chromebooks (Cart-based)			$6,000.00
	CB Cart			$1,600.00
	CB Chargers			$500.00
	Replacement Servers			$1,400.00
	iPads / Accessories			$5,000.00
	Laptop / Misc Supplies			$10,000.00
	Video / Camera Equipment			$1,200.00
	New Macs			$9,000.00
	4 New District Printers			$2,000.00
Network	Maintenance Agreements for District Firewall / Switches			$6,000.00
	Wireless Network Maintenance			$4,600.00
	Wired Network Maintenance			$5,000.00
Capacity	ISP Provider for 300MB of Data and Voice - Fiber WAN Connections			$55,000.00
Filtering	Securly			$1,900.00
	iBoss			$5,000.00
Software	Library Media Software			$2,550.00
	GoGuardian			$1,700.00

	Network Software			$1,000.00
	Curriculum Based Software / Apps			$10,500.00
	Virtualization Software			$570.00
Maintenance	JAMF Software			$9,000.00
	District Helpdesk Maintenance			$130.00
	SIS Maintenance / Services			$12,800.00
Upgrades	Network Switches / Infrastructure			$30,000.00
Policies and Plans				
Other Services	Online Registration			$8,400.00
	Repairs			$11,000.00
	Atomic Learning			$2,400.00
	IDE Portal			$1,100.00
	Notification System			$2,300.00
	Survey Software			$300.00

Three-Year Technology Plan Anticipated Funding Table

(2018-19)

ITEM	DESCRIPTION OF ITEM TO BE PURCHASED	FEDERAL FUNDING (EST)	STATE FUNDING (EST)	FUNDING (EST)
Digital curricula	Databases			$5,500.00
	United Streaming			$3,200.00
	Tech Literacy Assessment			$800.00
	Brainpop			$3,700.00
	IXL.com			$7,000.00
	i-Ready			$23,200.00
	Smart Music			$7,500.00
	Gizmos			$3,000.00
	NewsELA			$6,300.00
	Learning A-Z			$6,800.00
Technology Equipment	1:1 Chromebooks / Protection Plan / Cases			$49,000.00
	Gr. 3-5 Chromebooks (Cart-based)			$6,000.00
	CB Cart			$1,600.00
	CB Chargers			$500.00
	Replacement Servers			$1,400.00
	iPads / Accessories			$5,000.00
	Laptop / Misc Supplies			$10,000.00
	Video / Camera Equipment			$1,200.00
	4 New District Printers			$2,000.00
Network	Maintenance Agreements for District Firewall / Switches			$6,000.00
	Wireless Network Maintenance			$4,600.00
	Wired Network Maintenance			$5,000.00
Capacity	ISP Provider for 300MB of Data and Voice - Fiber WAN Connections			$55,000.00
Filtering	Securly			$2,400.00
	iBoss			$5,000.00
Software	Library Media Software			$2,550.00
	GoGuardian			$2,550.00

	Network Software			$1,000.00
	Curriculum Based Software / Apps			$10,500.00
	Virtualization Software			$570.00
Maintenance	JAMF Software			$10,200.00
	District Helpdesk Maintenance			$130.00
	SIS Maintenance / Services			$12,800.00
Upgrades	RMS Teacher Laptops			$30,000.00
Policies and Plans				
Other Services	Online Registration			$8,400.00
	Repairs			$11,000.00
	Atomic Learning			$2,400.00
	IDE Portal			$1,100.00
	Notification System			$2,300.00
	Survey Software			$300.00

District Report
Florham Park Public Schools

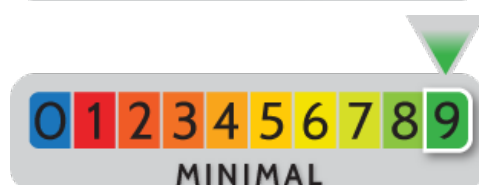(Ratings based on Minimum PARCC specifications.)

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

Rating for: PARCC Minimum Specifications

MINIMAL

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.

Rating for: PARCC Recommended Specifications

MINIMAL

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.

Powered by METIRI Group

District Report: Executive Summary

9

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.

9

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.

9

Device Readiness Rating

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

Testing Specifications

Number of schools: 3

Number of students to be tested: 646

Number of test sittings per Grade 3-5 student: 8

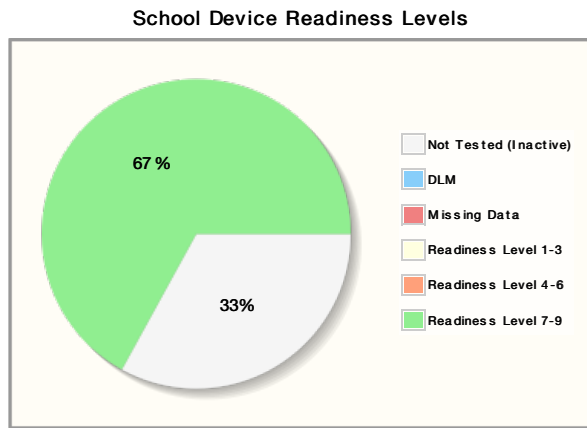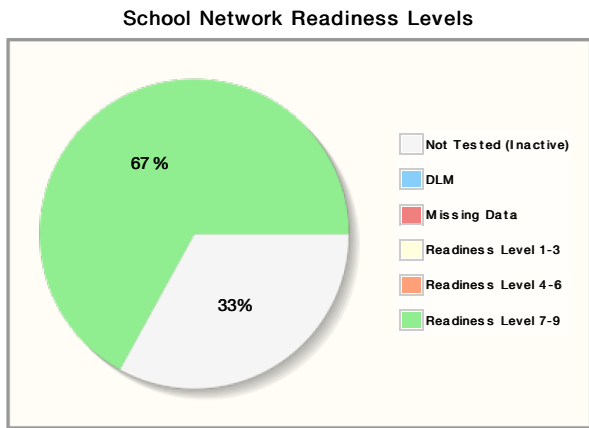Number of test sittings per Grade 6-11 student: 7
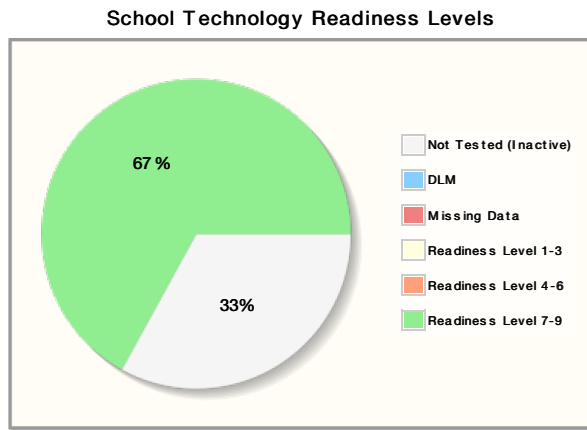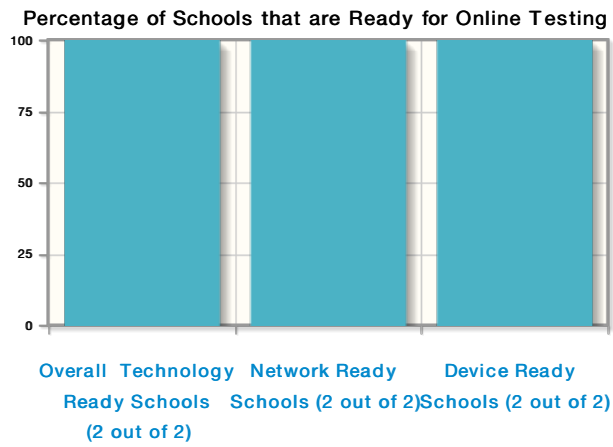
Grades Tested: 3 , 4 , 5 , 6 , 7 , 8

Assessment Window: 30 days

Assessment Sessions per Day: 2

Grade	Number of Students
3	100
4	109
5	95
6	95
7	126
8	121

Summary Status Report

Percentage of Schools that are Ready for Online Testing

Overall Technology Ready Schools (2 out of 2)

Network Ready Schools (2 out of 2)

Device Ready Schools (2 out of 2)

School Technology Readiness Levels

67 %

33%

- Not Tested (Inactive)
- DLM
- Missing Data
- Readiness Level 1-3
- Readiness Level 4-6
- Readiness Level 7-9

School Network Readiness Levels

67 %

33%

- Not Tested (Inactive)
- DLM
- Missing Data
- Readiness Level 1-3
- Readiness Level 4-6
- Readiness Level 7-9

School Device Readiness Levels

67 %

33%

- Not Tested (Inactive)
- DLM
- Missing Data
- Readiness Level 1-3
- Readiness Level 4-6
- Readiness Level 7-9

4

District Network Readiness
Florham Park Public 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:

100%

- Network Ready Schools
- Not Ready
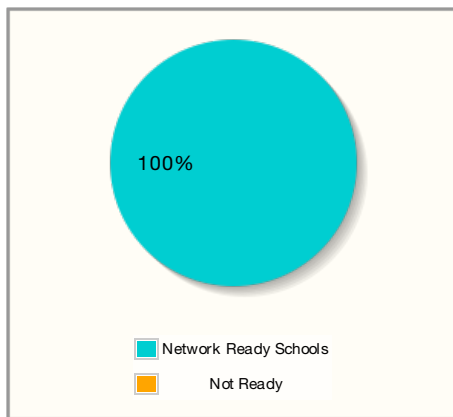
A Closer Look at the Schools

Category of Network Readiness for Online Assessment	Count of Schools	Schools
NOT TESTED	1	• Briarwood School
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	2	• Brooklake School • Ridgedale Middle School

Recommendations

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

District Device Readiness
Florham Park Public 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.

100%

Device Ready Schools
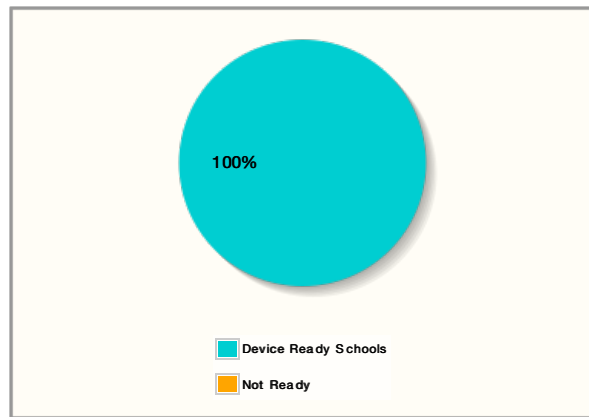
Not Ready

Category of Device Readiness for Online Assessment	Count of Schools	Schools
NOT TESTED	1	• Briarwood School
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	2	• Brooklake School • Ridgedale Middle 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.