

Garfield School District

Technology Plan 2016-2019



Board Adoption Date – September 26, 2016 Resolution #09-147-16

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Board of Education Members

Mr. Anthony Barckett- President

Dr. Kenneth Conte - Vice President

Mr. Bob Benanti

Mr. Everett Garnto, Jr.

Mr. Richard Giacomarro

Ms. Elizabeth Gray

Mr. Jack Mazzola

Mr. Charles Nucifora

Mr. Jeffrey Stewart

Administration

Mr. Nicholas Perrapato
Superintendent of Schools

Dr. Edward Izbicki

Assistant Superintendent of Finance/ Board Secretary

Alexandra Bellenger

Assistant Superintendent of Curriculum & Instruction

Building Administration

Garfield Preschools

Frank D'amicoPrincipal, ECLC
Beatrix Ajona MendezPrincipal, GPPA
Valerie StewartPrincipal, GPPA3
Jodi BianchiAssistant Principal
Nicole GrilloAssistant Principal
Dave NelkeEarly Childhood Supervisor

Elementary Schools

Jeff WilsonPrincipal, Washington Irving School #4
Doreen Velardi.....Principal, Woodrow Wilson School #5
Christopher Annibal.....Principal, Abraham Lincoln School #6
Jennifer Alfonso.....Principal, Theodore Roosevelt School #7
Ann Taylor.....Principal, Christopher Columbus School #8
Sally BulgerPrincipal, James Madison School #10

Garfield Middle School

Anna SciaccaPrincipal
Richard RigogliosoVice Principal
Kathleen DeRisi.....Vice Principal

Garfield High School

Dora D'Amico.....Principal
Nancy Kutsup.....Vice Principal
Steve MuchaVice Principal

Garfield Auxiliary Middle & High School

Charlie BonannoPrincipal
Dave GrayDean of Students

Garfield School District Technology Staff

Technology Integration Supervisor Deborah Rigoglioso

Technology Coordinator Laura Dunning

School #4 Donna DiSclafani

School #5 Ann Marie Scorzetti

School #6 Greg Pietrocola

School #7 Jody Malave

School #8 Dawn Grubman

School #10 Lauren Walters




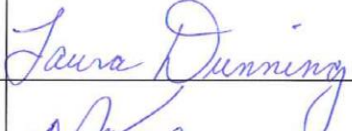






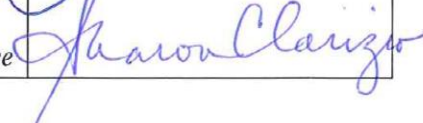
Middle School Renata LaSalle

Middle School Tom Vestergaard

High School Jim Dolci

Stakeholders

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.

<u>Stakeholder Name</u>	<u>Stakeholder Title</u>	<u>Stakeholder Signature</u>
Nicholas Perrapato	<i>District Superintendent</i>	
Deborah Rigoglioso	<i>Technology Integration Supervisor</i>	
Alexandra Bellenger	<i>Asst. Superintendent Of Curriculum</i>	
Laura Dunning	<i>Technology Coordinator</i>	
Dora D'Amico	<i>Principal, Garfield High School</i>	
Jennifer Alfonso	<i>Principal,</i>	
CANDICE GARCIA	<i>Parent</i>	
Dan Rigoglioso	<i>Teacher</i>	
Anthony Barekett	<i>School Board Member</i>	
JAMES CHALK	<i>Community Member</i>	
Sharon Clarizio	<i>Assistant Curriculum Supervisor, Science</i>	

Technology Plan components CHECKLIST

This form may be used to ensure all components are addressed in the submitted document for review.

Garfield School District			
NJTRAx PARCC Technology Readiness Rating:		NJTRAx Digital Learning Readiness Rating:	
<ul style="list-style-type: none"> If the Future Ready District Level summary report was generated within the 2015-2016 school year, include a copy of the district report with the Plan submission If the NJTRAx Digital Learning Surveys summary report was generated, include a copy for all identified schools 			
STEP		YES	NO
1.	District vision included.	✓	
2.	NJTRAx technology readiness system for the district and for each school was updated.	✓	
3.	NJTRAx DL surveys for each school were completed. GO TO STEP 5		✓
4.	School-based Goals, Strategies, Objectives and Indicators are included for each identified school.	✓	
5.	Reflection and adjustment plan is included.	✓	
6.	School-based plan for infusion of technology within instruction is clearly understood.	✓	
7.	School-based Reflection & Adjustment is included for each identified school.	✓	
8.	School-based budget is included to support activities in Action Plan.	✓	

Garfield Public School District Mission Statement

The educational community of Garfield believes that the ultimate goal of each school is to provide intellectual experiences within the context of a multi-cultural setting. This environment will enable each student to achieve their maximum potential. Each school shall seek to assist every student in the development of social skills and moral attitudes needed to successfully meet the challenges of a complex, dynamic, and ever-changing world. Each school shall continue to cultivate an appreciation of cultural and aesthetic values so that each student can make choices indicative of a knowledgeable and contributing member of a democratic society. To fulfill this role, the district is committed to creating a flexible educational environment addressing the individualities and potentialities of each student. The staff will endeavor to complete the development of a thinking, tolerant person, well prepared to meet the challenges of school and the life they choose to encounter.

Educational Philosophy

The Garfield School District shall strive to offer the highest quality of education, designed to provide a level of excellence that will enable all students to realize their intellectual and personal goals. This process shall entail the search for truth and a respect for scholarship and learning. The district shall offer an environment that values cultural diversity and respects individual differences with no tolerance for bigotry. The district is committed to the development of a partnership in education; integrating the interests of students, parents, staff and community leaders. This educational process shall develop responsible young people who are capable of effective and meaningful career decisions.

Current Infrastructure

Internal Network Connections (Local Area Network):

Every School Building owned by the Garfield Board of Education has been wired with at least six network data drops per classroom. Administrative offices have also been adequately wired. Each school building has a fast Ethernet switched Local Area Network (LAN). Internal wiring within each individual building is Category 5 and/or Category 6 cabling with a fiber optic connection between the building IDF and MDF areas. The District recently installed A Cisco 5500 wireless controller with over 70 wireless access points connected in the high school and middle school with plans to have the entire district wireless over the next two years.

External Connection (Wide Area Network):

The District's Wide Area Network (WAN) presently connects all Garfield Board of Education owned buildings through a Private Fiber Optic 10 GB Network to the district Technology center located in the high school. The district technology center hosts all district servers, 1 GB Internet connection/Telephone PRI's and internet filtering devices.

Network Servers:

The Garfield School district uses HP Proliant Servers. Microsoft Windows 2013 server is the Network Operating Software. The Internet connection is filtered through Edgewave's IPRISM content filtering device The District website is also hosted in the technology center. The district telephone system is Cisco Unity Connection 8.6 VoIP.

Network Clients:

There are currently an estimated 3000 network clients connecting through the Wide Area Network to the District Technology Center. We have multiple platforms running a variety of operating systems such as Windows 7, Windows 8, and Mac OS X.

Telephone System:

The district telephone system is Cisco Unity Connection 8.6 VoIP. All handsets utilize the existing RJ45 jacks installed throughout the district. This system eliminates the need for expensive telephone services, all services are completed within the district. This system enables every room in the district the capability to dial 911 in the event of an emergency it also enables every teacher in the district to utilize voicemail as a form of communication with parents and students.

Email and Cloud Storage

The Garfield School District has entered into a Campus Agreement with Microsoft with Enterprise Computer Access Licenses. This agreement allows the District to have access to the latest Microsoft software for the end users. It also allows for access of all staff to have Cloud based Outlook for Email, Calendar, and the latest version of Microsoft Office, OneDrive, and additional apps. Under this agreement, all students will also receive Microsoft Office 365 account, which gives them access to the latest version of Office, Email, and OneDrive. Microsoft Office 365 provides the district with the following:

Exchange Online	Cloud-based 50 GB inbox for email, calendar, and contacts with always-up-to-date protection from viruses and spam.
SharePoint Online	Cloud-based service for creating sites to share documents, files, student and teacher class notes, homework and project assignments, and other information with students and faculty.

OneDrive	Cloud-based 1 TB per user file storage for students, faculty, and staff. Students can take and have access to class notes from anywhere. Student accounts are associated with the school and used for school-appropriate content, such as homework and schoolwork. Permissions and access can be changed by the school's IT administrator at any time.
Office Web Apps	Office web applications that let you create, edit and share your Excel, Word, PowerPoint and OneNote files from any browser. You can share and simultaneously work on documents with other classmates, and faculty. No need to merge different versions later.
Yammer	Secure, private social networking. Yammer helps students and instructors keep in touch any time, encouraging open communication and deeper understandings.

Digital Subscriptions

The Garfield District purchased additional digital content to support and enrich student learning and transform instruction.

Explore Learning's Gizmos provides access to engaging and interacted math and science simulations. Gizmos provide instant feedback for teachers to gauge skills mastered. Gizmos provide interactive lessons and assessments that go along with the labs to get students to experiment with variables to get different results.

Discovery Education Streaming Plus is a comprehensive digital service that motivates students to learn and supports teachers in every content area to transform their instruction. All resources and content are aligned with Common Core Curriculum Standards. Discovery Education provides interactive labs, virtual field trips, engaging video content, and interactive activities and assessments.

Study Island is online assessments review and reinforces skills and standards mastered which are also aligned with the NJCCS. These online assessments are also used for PARCC test preparation. Study Island provides real time snapshot of student proficiencies throughout the year.

Garfield School District Technology Inventory 2016

	<u>Smartboards</u>	<u>Flat Panel Smartboard</u>	<u>Epson Projectors</u>	<u>Smart Projectors</u>	<u>HP Computers</u>	<u>HP Laptops</u>	<u>Chromebooks</u>	<u>IPADS</u>	<u>HP Printers</u>	<u>IMACS</u>	<u>Macbooks</u>	<u>Surface Tablets</u>
<u>School 4</u>	24	0	13	11	125	60	62	34	10	0	0	0
<u>School 5</u>	20	0	3	16	106	30	70	13	9	0	0	0
<u>School 6</u>	24	0	12	12	123	33	66	17	12	0	0	0
<u>School 7</u>	20	0	5	15	88	49	73	35	7	0	0	0
<u>School 8</u>	22	0	7	15	90	20	133	10	8	0	0	0
<u>School 10</u>	29	0	10	20	144	35	96	55	11	0	0	0
<u>Middle School</u>	81	0	37	43	345	204	194	23	22	6	15	
<u>High School</u>	60	1	25	40	250	237	133	0	0	0	30	5
<u>ECLC</u>	26	0	8	16	81	18	0	59	8	0	0	0
<u>GPPA 1</u>	10	0	0	10	38	15	0	16	2	0	0	0
<u>GPPA 3</u>	7	0	2	5	22	8	0	12	2	0	0	0
<u>Auxiliary</u>	17	0	17	0	17	57	25	0	4	0	0	0
<u>Totals</u>	340	1	139	203	1429	766	852	274	95	6	45	5

District Vision

Technology and the Curriculum

The Garfield School District technology committee envisions a digital learning community that uses technology:

- Competently, fluently, and ethically in a rigorous and relevant curriculum that encourages inquiry based, hands-on learning
- To support global collaboration through online resources and partnerships with communities
- To incorporate 21st century skills to prepare students with lifelong skills
- To use predominantly digital instructional materials to support a more student centered learning
- Implement the SAMR Model to assist educators in the process of integrating technology into the classroom and using it in a meaningful way.

Long Term Goals:

1. All students will have continuous and reliable access to the Internet and digital tools.
2. Students will have a device that will increase efficiency, decrease use of consumables, and promote collaboration and communication.
3. Students, faculty, and administration will use digital tools and various platforms to increase efficiency, communication, collaboration, and productivity.
4. Create digital learning spaces within the classroom to support 21st Century Skills and S.T.E.A.M.
5. As we transition to a 1:1 initiative, teachers will need additional support to ensure that students are utilizing technology tools appropriately and that technology is integrated into all curricular areas.
6. All teachers will follow the SAMR Model and/or various techniques to design, develop and infuse digital learning experiences that utilize technology across all curricular areas.

Long Term Goals

Goal 1:

The Garfield School District will ensure high quality wireless access throughout our district from PreK-12. We are proposing an upgrade/expansion of the existing network in the district. The wireless network will receive a major upgrade in all school buildings and offices. Access points will be increased to 1 per classroom to provide more coverage. The access points will be updated to the newest standard, which will also increase the speeds to devices. As a result students will receive a simultaneous experience, regardless of location.

In the district, we will be replacing core switches and updating the fiber optic connection between the main district hub and individual buildings to support 10 GB.

Goal 2:

The Garfield School District is committed increasing the number of student to computer ratio. In the next three years Garfield will be moving towards a 1:1 computer initiative from Grades 3-12. In the next, two years all students in grades 9-12 will be able to experience individual computer use as we continue to increase the number of devices at the Elementary and Middle school buildings.

By the end of this plan, the Elementary schools can expect to see 1 laptop cart per grade level. The Middle school can expect to see an increase in the number of carts by 30%.

By increasing the number of devices and digital tools available to staff and students, this will result in a decrease in consumables and increase in collaboration amongst students; teacher to student; global collaboration and awareness.

Goal 3:

The Garfield School District continuously looks for ways to use digital tools and platforms to increase collaboration, capacity, and increase efficiency in student work, and with teachers and administration. By the end of year one, all students in grades 3-12 will be provided with an Office 365 account. Students will have access to district email and Office 365 apps which includes the latest version of Office and additional collaboration tools such as One Drive; OneNote; Class Notebook; Sway; Delve; Office Mix. With these tools, students and teachers will be able to collaborate, create, and communicate via the cloud. These tools will provide students with their own personal workspace which can be accessed from both school and home on any device. Students will be able to experience how to create and invent their ideas into functional inventions.

Goal 4:

Create Digital Learning spaces in Prek-5 classrooms. Any space can be transformed into a learning environment, allowing for a combination of large-group, small-group and individualized learning activities. Old spaces are transformed for new creative/digital spaces (“makerspace”) to promote learning through exploration, cross disciplinary with essentials in science, technology, engineering, art and math (S.T.E.A.M.). This digital learning space will contain tools that allow students to be creative and innovative. For example, within the next three years 3D Printers and robotics will be available for students to be introduced to STEM or S.T.E.A.M. activities. These digital learning spaces will increase student engagement and move towards interest-based learning.

Goal 5:

Professional development for our staff and teachers is essential to ensure that digital learning is taking place in all classrooms. For example, as the district moves towards using Office 365 in the classroom, teachers will need support in making this transition and change in their lessons and teaching. Ongoing professional development is going to be necessary to support teachers in making that transition. With this in mind, it is important to fill the role of an Educational Technology Specialist. The Educational Technology Specialist will provide ongoing support for teachers, through various settings such as small group professional development or in classroom support on using Office 365 tools to promote a digital learning environment.

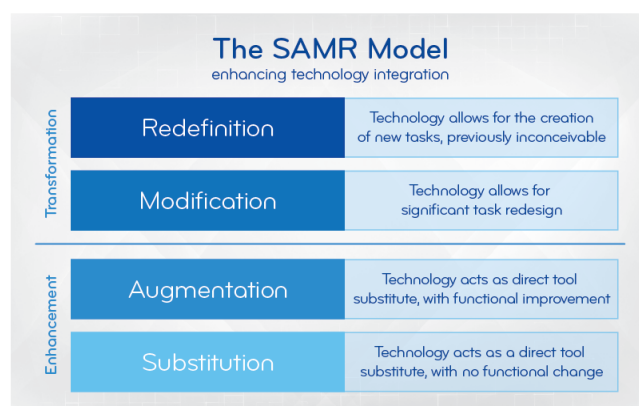
Professional development will be offered to staff on conference days, after school, during collaborative periods, and in classroom support.

Goal 6:

Digital learning encompasses various models and methods of teaching to transform learning experiences so the result is higher level of achievement for students. The SAMR Model stands for Substitution, Augmentation, Modification, and Redefinition. This model is made up of 4 levels:

Substitution

In a substitution level, teachers or students are only using new technology tools to replace old ones, for instance, typing an essay in the desktop version of Microsoft Word and saving it locally. The task of (writing) is the same but the tools are different. Using Google Earth instead of an Atlas is an example of substituting one for another.



Augmentation

Though it is a different level, but we are still in the substitution mentality but this time with added functionalities. Again using the example of Office 365, instead of only writing a document and having to manually save it and share it with others, One Drive provides capabilities of auto saving, syncing, and sharing in the cloud.

Modification

This is the level where technology is being used more effectively. An example of this is using the commenting service in Office 365 and One Drive, for instance, to collaborate and share feedback on a writing piece. Using digital tools to create a brochure or video presentation.

Redefinition

Redefinition means that students use technology to create a product or do a task. An example of redefinition is "when students connect to a classroom across the world; chat or interview a scientist through Skype; creating a video presentation on an historical event ". The goal is for teachers to transform their teaching and student learning so that they achieve the highest level of this model Redefinition.

With this in mind, digital learning can be implemented in a variety of ways. Some methods of teaching to achieve this transformation are the Flipped classroom, Blended learning, Distance learning, Synchronous online learning, and Hybrid digital learning.

Common Definitions of Digital Learning

Digital Learning - is any instructional practice that effectively uses technology to strengthen a student's learning experience.

Synchronous Online Learning - refers to a learning event in which a group of online students are engaging in learning at the same time.

Asynchronous Online Learning - is a student-centered teaching method that uses online learning resources to facilitate information sharing outside the constraints of time and place among a network of students.

Hybrid Digital Learning - is a model of course design that combines traditional, face-to-face class time with online course work

Distance Learning - is a method of studying in which lectures are broadcast or classes are conducted over the Internet, without the student's needing to attend a school or college. Also called distance education.

Computer Infused Classrooms - is a classroom in which the curriculum is mostly delivered through a computer application. Students can work at their own pace and teacher works with small groups.

Blended Learning - is a method of instruction in which a student learns at least in part through delivery of content and instruction via digital and online media with some element of student control over time, place, path, or pace.

Technology Integrated Classrooms - is a classroom in which technology is integrated into the traditional classroom, but typical teaching methods are used.

Flipped Classrooms - is an instructional strategy and a type of blended learning that reverses the traditional educational arrangement by delivering instructional content, often online, outside of the classroom and moves activities, including those that may have traditionally been considered homework, into the classroom.

State Reporting and NJTRAx Technology Readiness Report

The Garfield District participates in the NJ State Data Collection programs which includes NJSmart, NJTrax Technology Readiness system as well as NJTrax Digital Learning System. Included you will find under Appendix A is the final district NJTrax Technology Readiness Summary report. According to the report, Garfield hardware meets the minimum readiness with a score of 9 (moderate) in regards to PARCC recommendations.

The district participated in the NJTrax Digital Learning survey reporting system. However, we did not meet the minimum number of survey responses to generate the results.

Needs Assessment, Reflection and Adjustments

The Garfield District’s focus is standardization when it pertains to technology integration and deployment. Our goal is to have equity across all students. Implementation of hardware and software is consistent throughout the district, with the exception of pilot programs. It is for this reason that the technology plan is based on the district needs instead of individualizing to each school. Goals and objectives are aligned to grade levels or district wide.

The goals and objectives mentioned apply to the following schools:

School	Grades
Garfield High School	9-12
Garfield Middle School	6-8
Irving School #4	K-5
Wilson School #5	K-5
Lincoln School #6	K-5
Roosevelt School #7	K-5
Columbus School #8	K-5
Madison School #10	K-5

District Reflection and Adjustments

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

IMPLEMENTATION PLANNING – GARFIELD SCHOOL DISTRICT TABLE

NJTRAx PARCC Readiness Rating: 6

NJTRAx Digital Learning Readiness Rating: 6

Goal 1: Infrastructure: Continue the upgrade path of the wireless infrastructure in the District.

Strategy: Upgrade the wireless infrastructure and expand to all schools

Objective: 1.1: Provide reliable and effective infrastructure to support digital learning for all stakeholders in the district

Projects/Activities	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Schools/Grade Levels	Timeline	Resources/Funding
Add Access Points (APs) where site map indicates insufficient signal in Middle and High School	Technology Integration Supervisor Technology Coordinator	Middle School High School 6-12 th Grades	9/2016-12/2016	Federal standards E-Rate
Replace current switching and replace end-of-life	Technology Integration Supervisor Technology Coordinator	Middle School 6-8 High School 9-12 Elementary K-5 Preschools 3-4	7/2016-12/2016	Federal standards E-Rate
Upgrade wireless network to entire district	Technology Coordinator	Middle School 6-8 High School 9-12 Elementary K-5 Preschools 3-4	9/2016-12/2016	E-rate
Upgrade current firewall	Technology Coordinator	Middle School 6-8 High School 9-12 Elementary K-5 Preschools 3-4	9/2016	E-rate

Technology Plan

IMPLEMENTATION PLANNING – GARFIELD SCHOOL DISTRICT TABLE

NJTRAx PARCC Readiness Rating: 6

NJTRAx Digital Learning Readiness Rating: 6

Goal 2: Equitable Access: Garfield School district will strive for a 1:1 computing initiative

Strategy: Purchase additional devices each year of plan until we achieve goal

Indicator(s): Inventory; Surveys

Objective:

2.1: An increased ratio of mobile devices to students grades 2-12

2.2: Provide reliable and effective infrastructure for all stakeholders at school and at home.

Projects/Activities	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Schools/Grade Levels	Timeline	Resources/Funding
Survey other state school districts who have successfully organized and are running a 1-1 technology initiative	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary 2-5	September-October 2016	Websites Contact Tech Departments
Organize a committee to discuss the ramifications of developing a 1:1 technology initiative	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary 2-5	September-October 2016	School Administration Technology Staff Curriculum Depart. Teachers Parents
Survey parents on implementing a 1:1 technology initiative	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary 2-5	October-December 2016	Survey Monkey
Purchase devices each year until we reach goal	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary 2-5	Each Year of the Plan	School Budget Purchase Order
Investigate the possibility of a BYOD and additional equipment needed	Technology Integration Supervisor	Middle School 6-8 High School 9-12	Sept 2016. – June 2017	

Technology Plan

IMPLEMENTATION PLANNING – GARFIELD SCHOOL DISTRICT TABLE

NJTRAx PARCC Readiness Rating: 6

NJTRAx Digital Learning Readiness Rating: 6

Goal 3: Curriculum Integration: Teachers will continuously look for innovative ways to use digital tools and platforms to increase collaboration, capacity, and efficiency in student work and provide a deeper learning.

Strategy: Teachers will implement and utilize Office 365 apps (Class Notebook and One Note) to create a digital workspace for creating, collaborating, and communicating with students.

Indicator(s): Lesson plans, surveys, documentation of training received

Objective: 3.1: Teachers will provide students' opportunities to demonstrate creative thinking, construct ideas, and develop innovative products using technology.

Projects/Activities	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Schools/Grade Levels	Timeline	Resources/Funding
Teachers will participate in Microsoft Teacher Academies	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary 2-5	7/16-6/17	Outside Consultant
Teachers will participate in webinars and view tutorials to earn badges	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary 2-5	Ongoing for each year of plan	Microsoft Educator Community http://educaton.microsoft.com
Teachers will download lessons that support digital learning	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary 2-5	Ongoing for each year of plan	Microsoft Educator Community http://educaton.microsoft.com
Students will participate in Skype lessons and virtual field trips to collaborate and communicate globally	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary 2-5	Ongoing for each year of plan	Microsoft Educator Community http://educaton.microsoft.com Discovery Education

Technology Plan

IMPLEMENTATION PLANNING – GARFIELD SCHOOL DISTRICT TABLE

NJTRAx PARCC Readiness Rating: 6

NJTRAx Digital Learning Readiness Rating: 6

Goal 4: Innovation: Teachers will create a physical space that is inviting, safe and flexible. This environment promotes communication, collaboration, innovation, inspiration, creative exploration which encourages learning through productivity.

Strategy: Identify Elementary classrooms to pilot the MakerSpace learning space allowing for communication, collaboration, innovation, and creativity.

Indicator(s): Projects; Observations;

Objective: 4.1: The district plans to increase the number of classrooms each year that implement the Maker Space learning space model and promote S.T.E.A.M.

Projects/Activities	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Schools/Grade Levels	Timeline	Resources/Funding
Survey teachers and principals	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary K-5	September 2016	Survey Monkey
Identify classrooms to implement the MakerSpace learning space	Technology Integration Supervisor Principals Curriculum Department	Middle School 6-8 High School 9-12 Elementary K-5	September-November 2016	Online Resources for Examples S.T.E.A.M. Online Resources
Purchase innovative equipment such as 3D printer; robotics;	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary K-5	September-November 2016	Vendors
Provide professional development and online resources	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary K-5	September-November 2016	Technology Department
Explore grant opportunities to support MakerSpace and/or STEM	Technology Integration Supervisor Teachers	Middle School 6-8 High School 9-12 Elementary K-5 Preschools 3-4	Ongoing	NJDOE
Assist model classrooms in creating a physical space that promotes communication, collaboration, innovation, and creativity	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary K-5 Preschools 3-4	Ongoing	Teacher Coaching
Continue to implement the makerspace learning space throughout the district	Teachers Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary K-5 Preschools 3-4	Each Year of Plan	Gather Feedback

Technology Plan

IMPLEMENTATION PLANNING – GARFIELD SCHOOL DISTRICT TABLE

NJTRAx PARCC Readiness Rating: 6

NJTRAx Digital Learning Readiness Rating: 6

Goal 5: Professional Learning: Support Educators so that they can attain the skills and knowledge necessary to effectively use educational technology to assist students to achieve the Core Curriculum Content Standards.

Strategy: Provide ongoing modeling and coaching on digital learning

Indicator(s): Observations; Surveys; Assessments are meaningful to learner which may produce information, product, or service;
Students are given opportunities to explore and engage actively with technological tools; Instruction oriented to constructing meaning; providing meaningful activities/experiences

Objective: 5.1: Teachers will provide students' opportunities to demonstrate creative thinking, construct ideas, and develop innovative products using technology.

Projects/Activities	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Schools/Grade Levels	Timeline	Resources/Funding
Teachers will participate in Microsoft Teacher Academies	Technology Integration Supervisor	Middle School 6-8 High School 9-12 Elementary 2-5	7/16-6/17	Outside Consultant Office 365 Tutorials, Webinars
Ed Tech Specialist will develop best practices for digital learning	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary 2-5	Ongoing for each year of plan	Technology Integration Supervisor Educational Technology Specialist Outside Consultant
Create and implement professional development activities	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary 2-5	Ongoing for each year of plan	Technology Integration Supervisor Educational Technology Specialist Online resources
Modeling and coaching technology infusion across grade levels and disciplines	Technology Integration Supervisor Educational Technology Specialist Classroom Teachers (Coaches)	Middle School 6-8 High School 9-12 Elementary 2-5	Ongoing for each year of plan	Teachers Online resources
Survey staff for needs assessment	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary K-5 Preschools 3-4	9/2016	Survey Monkey

Technology Plan

IMPLEMENTATION PLANNING – GARFIELD SCHOOL DISTRICT TABLE

NJTRAx PARCC Readiness Rating: 6

NJTRAx Digital Learning Readiness Rating: 6

Goal 6: Teachers will adopt the SAMR Model to show the progression of technology integration in teaching and learning.

Strategy: Survey Teachers to assess the level of technology integration; Observations; Provide on-going, curriculum and instructional technology on-site support to teachers

Indicator(s): Instruction oriented to constructing meaning; providing meaningful activities/experiences; Help students to construct their own meaning by modeling, mediating, explaining when needed, redirecting focus, providing options; Integrating disciplines to solve problems and address issues

Objective: 6.1: Teachers transform instruction to foster digital learning through the SAMR Model; 6.2: All students will learn and practice technology skills and ethical use of technologies that will prepare them for the 21st century workplace

Projects/Activities	Person responsible for completion of activity and those responsible for reviewing or approving the activity to move forward	Schools/Grade Levels	Timeline	Resources/Funding
Provide professional development opportunities addressing all levels of technology proficiency.	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary K-5	2016-2019	Technology Department Teachers Outside Consultants Online Resources
By the End of Year 1 teachers will have progressed from Substitution to Augmentation level in the SAMR Model	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary K-5	2016-2017	Technology Department Teachers Outside Consultants Online Resources Digital Content
By the End of Year 2 teachers will have progressed from the Augmentation to Modification level in the SAMR Model	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary K-5	2017-2018	Technology Department Teachers Outside Consultants Online Resources
By the End of Year 3 teachers will have progressed from Modification to Redefinition.	Technology Integration Supervisor Educational Technology Specialist	Middle School 6-8 High School 9-12 Elementary K-5	2018-2019	Technology Department Teachers Outside Consultants Online Resources

Technology Plan

IMPLEMENTATION PLANNING – GARFIELD SCHOOL DISTRICT TABLE

NJTRAx PARCC Readiness Rating: 6

NJTRAx Digital Learning Readiness Rating: 6

Professional Learning

Goal No.	Initial Activities	Follow-up Activities (as appropriate)
1	Microsoft Teacher Academy Office 365 Hosting Event Introduction to Office 365	Observe teachers utilizing Office 365 Teachers will turnkey Teachers must complete district PD Evaluation (Survey Monkey)
2	Teachers will attend Professional learning sessions outside district regarding digital learning, blended learning, flipped classroom (Standard Solutions; etc.)	Teachers who attend will turnkey Complete Professional Development Feedback Form Lesson Plans must include Technology Integration
3	In-class Modeling	
4	Grade Level Meetings	Share with peers
5	Provide workshops on district Professional Development Days	Teachers who attend will turnkey at grade level meetings Complete Professional Development Feedback Form Lesson Plans must include Technology Integration
6	Teachers will utilize the Microsoft Education Community http://education.microsoft.com for online resources; tutorials; webinars;	Completion Certificate

Budget

Goal No.	Activity	Funding Source (Federal/State/Private/)	Amount
1	Microsoft Teacher Academy Office 365 November 8 th , 2016 Hosting Event Paid by Microsoft	Microsoft	\$0
2	Teachers will attend Professional learning sessions outside district regarding digital learning, blended learning, flipped classroom	Title IID	\$7500.00

Technology Plan

IMPLEMENTATION PLANNING – GARFIELD SCHOOL DISTRICT TABLE

NJTRAx PARCC Readiness Rating: 6

NJTRAx Digital Learning Readiness Rating: 6

Funding Table

Goal and Identified Need	Strategy to Address Need	Activity/Task/Tactic	Evaluation/ Indicators	Budget Amount/Source
Upgrade Infrastructure to support digital learning	Infrastructure: Upgrade Current Wireless network throughout the district	Upgrade Switches to 10GB; Timeline Sept. 2016- Dec. 2016 Expansion of district wireless network to Elementary and Preschools Additional Access Points 1:1 Timeline: June 2017	Evaluate the effectiveness of wireless access to all students All stakeholders share same vision	Erate
One to One Initiative to support digital learning and to provide deeper learning	Equitable Access: Increase the number of devices in each school to attain a 1:1 initiative	Purchase 25-50 devices in each school per year	Collect data on student performance	Federal Funds Title I \$100,000 School Budget: \$90,000
Increase student engagement and collaboration Student Accounts for Office 365	Provide Microsoft Office 365 accounts to all students in grades 3-12	Annual License for Teacher Accounts (Students Accounts Free)	Digital portfolio	School Budget \$1200
Digital Curricula and Resources to Support global collaboration, creativity, communication	Curriculum Integration: Digital Content/Curricula	Renewal Subscriptions Discovery Education Gizmos Explore Learning Math/ Science Study Island	Use Program reports to collect data	District Budget \$40,135 per year \$16,500 \$33,500
E-learning opportunities and credit recovery	Curriculum Integration: Digital Content/Curricula	Renewal subscriptions Plato Online Courseware Edoptions online credit recovery	Use Program reports to collect data	District Budget: \$7,750 School Budget: \$3,740
Purchase equipment and resources that support S.T.E.A.M. curriculum	Innovation: Makerspace S.T.E.A.M.	Purchase S.T.E.A.M. equipment such as 3D printers Robotics	Student created products to show deeper learning	Federal Funds Title I: \$30,000 Connect Ed
Provide professional learning opportunities that focuses on instructional strategies on creating a digital learning environment	Professional Learning: Support and Educate teachers on digital learning	Professional Development: Consultants Workshops	Certificates of completion Teacher Evaluations	Title IID \$10,000 Webinars (No Cost) Online Resources (No Cost)

District Report

Garfield Public School District

(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



Rating for: PARCC
Recommended
Specifications



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:
 - 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

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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.

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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

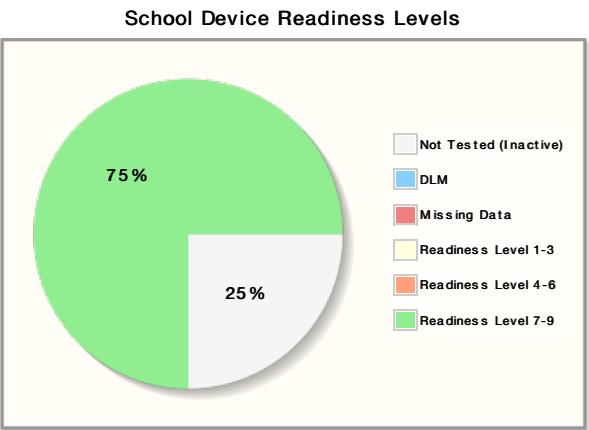
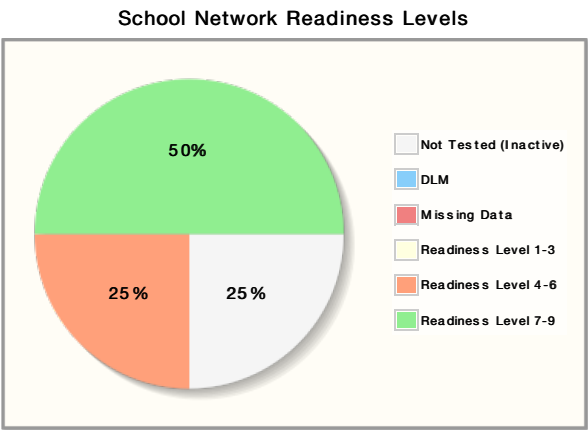
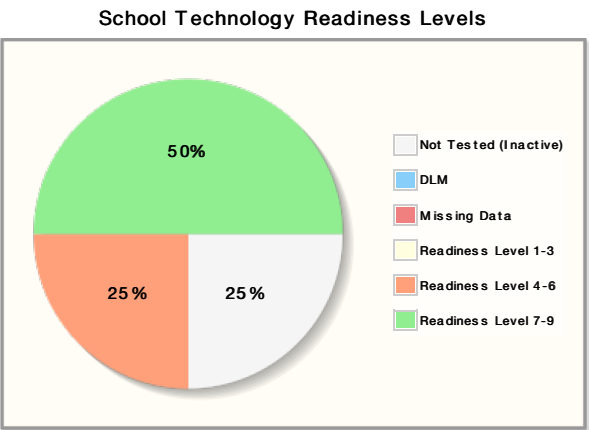
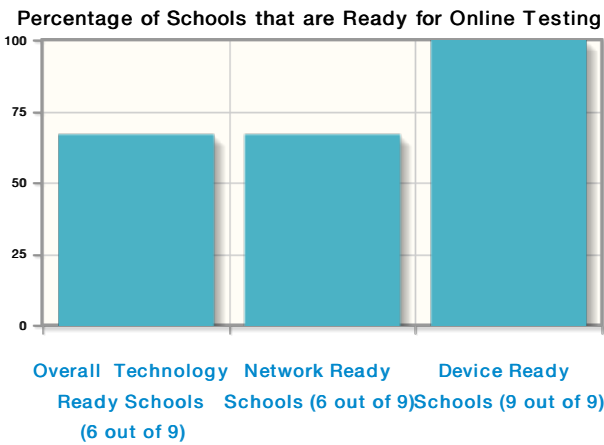
Device Readiness Rating

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

Testing Specifications

Number of schools: 12	Grade	Number of Students
Number of students to be tested: 2651	3	325
Number of test sittings per Grade 3-5 student: 8	4	299
Number of test sittings per Grade 6-11 student: 7	5	288
Grades Tested: 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11	6	278
Assessment Window: 30 days	7	309
Assessment Sessions per Day: 2	8	297
	9	301
	10	290
	11	264

Summary Status Report



District Network Readiness

Garfield Public School District

(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.

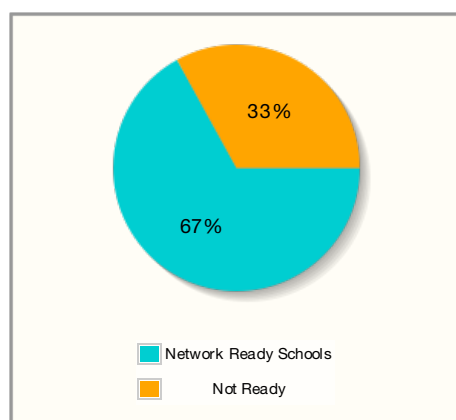
New Jersey/PARCC Guidelines for Overall District Technology Readiness for Online Assessment

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 Network Readiness for Online Assessment	Count of Schools	Schools
NOT TESTED	3	<ul style="list-style-type: none"> Garfield Early Childhood Learning Center School #4 Annex Garfield Public Preschool Annex
DLM	0	
MISSING DATA	0	
NOT READY Low Level Rating:1-3	0	
NOT READY Mid-Level Rating:4-6	3	<ul style="list-style-type: none"> Christopher Columbus School #8 Garfield Middle School Washington Irving School #4
READY Rating:7-9	6	<ul style="list-style-type: none"> Garfield High School Abraham Lincoln School #6 Roosevelt School #7 Woodrow Wilson School #5 James Madison School #10 Garfield Auxiliary Ms/hs

Recommendations

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

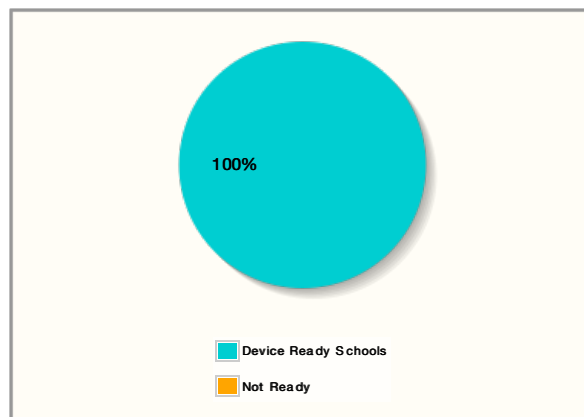
District Device Readiness

Garfield Public School District

(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
NOT TESTED	3	<ul style="list-style-type: none"> Garfield Early Childhood Learning Center School #4 Annex Garfield Public Preschool Annex
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	9	<ul style="list-style-type: none"> Garfield High School Christopher Columbus School #8 Garfield Middle School Abraham Lincoln School #6 Roosevelt School #7 Washington Irving School #4 Woodrow Wilson School #5 James Madison School #10 Garfield Auxiliary Ms/Hs

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.



State of New Jersey

DEPARTMENT OF EDUCATION

PO Box 500

TRENTON, NJ 08625-0500

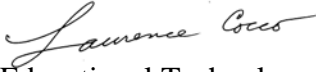
CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DAVID C. HESPE
Commissioner

September 22, 2016

TO: Mr. Nicholas Perrapato, Superintendent
Garfield Public School District

FROM: Laurence Cocco 
Director, Office of Educational Technology
Division of Teaching & Learning

SUBJECT: **Technology Plan for Digital Learning Review**

Congratulations! As of September 15, 2016, a peer-review committee determined that Garfield Public School District has a viable plan in place to systemically transform instruction through the development or enhancement of the effective implementation of digital learning. This technology plan for digital learning is expected to be implemented through June 30, 2019.

If you have any questions, please email linda.carmona-bell@doe.state.nj.us.

LC/sp/e:technologyplanacknowledgement

c: Norah Peck

Linda Carmona-Bell