

Jamestown School Department



2024 – 2027 Technology Plan

Jamestown School Technology Plan

September 2022

1.0 Vision/Mission	3
1.1 Vision Statement	
1.2 Philosophy	
2.0 Accomplishments	3
3.0 Current Status	4
3.1 Infrastructure	
3.1.1 Equipment	
3.1.2 Software	
3.1.3 Network	
3.1.4 Policies	
3.1.5 Security and Disaster Recovery	
3.1.6 Telecommunications	
3.2 Professional Development	
3.3 Technology Support Personnel	
3.4 Funding	
3.5 School Web Site	
3.5.1 Classroom Pages	
4.0 Objectives	13
4.1 Teacher Support and Growth	
4.2 Technology in the Curriculum	
4.3 Hardware/Software availability	
4.4 Community Service	
4.6 Intranet	
4.7 Plan Management	
Appendices	16
Appendix A: Timeline of Accomplishments	
Appendix B: Jamestown School Standard Software Suite and Hardware Purchasing Requirements	
Appendix C: One to One Initiative	
Appendix D: Three Year Tech Plan	
Appendix E: Coding Initiative	

1.0 Vision/Mission

1.1 Vision Statement

"Vision is the art of seeing things invisible." - Swift

The Jamestown School District aspires to form a collaborative partnership with the community, fostering a secure, nurturing learning environment where each child is challenged to realize their unique potential. Our vision includes leveraging technology to enhance success by inspiring students to become active learners through critical thinking, problem-solving, and the development of decision-making skills. By doing so, we aim to better prepare all students for the challenges of today's world and the future they will shape.

1.2 Philosophy

The Jamestown School Technology Plan is dedicated to providing cutting-edge technology advancements in education for both Melrose School and Lawn Avenue School. Empowering teachers, students, and administration with the necessary hardware, software, training, and support, we strive to seamlessly integrate computers and technological equipment into the curriculum. Age-appropriate computer skills and technical guidance will propel students toward continued success in their educational journeys.

This Technology Plan is a dynamic document, subject to periodic review to incorporate new technology resources and interests. The Technology Committee will conduct an annual review of goals and objectives, ensuring alignment with evolving educational needs.

2.0 Accomplishments

Over the years, technology tools have become integral to the teaching and learning experience at Jamestown Schools. Initially led by volunteer teachers and parents, our commitment to technological advancement has grown, culminating in the

formation of a dedicated Technology Department. Comprising a Technology Director, Technology Support and Integration Specialist, and a part-time Hardware Technician, the department supports teachers and students with the necessary tools for an enriched educational experience. A timeline of achievements can be found in Appendix A.

3.0 Current Status

3.1 Infrastructure

3.1.1 Equipment

Classrooms:

- Each grade level classroom incorporates computers or Ipads to fulfill curriculum goals.
- All K-8 classrooms are part of the One to One initiative (refer to Appendix F), providing each student with a dedicated device.
- Access to networked laser printers is available for all grades.
- Core classrooms feature ceiling-mounted projectors, document cameras, and grades 5-8 also have Smart Interactive whiteboards.

Music and Library

- Melrose Library and Music room have a classroom set of Ipads
- Lawn Library has an Interactive Whiteboard

Lawn Tech Education Lab/Maker Space:

- 6 Apple iMacs for multimedia projects and after-school programs.
- Additional tools include a 3D printer, laser cutter, soldering station and a library of Littlebits electronics components.

Administration:

- School administration personnel have laptops with standard software suites, network, and internet access.

Network Resources:

- Administrative data folders, networked printers, and teaching staff access to network data folders.
- Chromebook users utilize Google Drive for document sharing.
- Mobile projectors for auditorium use, training, and full-class instruction.

3.1.2 Software

Windows Computers:

- Standard software suite as outlined in Appendix B.
- Web access to educational titles and apps for specific student and staff groups.

Google Apps:

- Faculty and students (grade 3-8) have Google Apps accounts with access to GSuite and evaluated educational apps.

3.1.3 Student Information System

- Aspen, provided by Follett Software, serves as the web-based student information system.
- Access granted to administrators, teachers, teaching assistants, and parents based on assigned roles.

3.1.4 Network

Jamestown School Network:

- Common network and internet access for all school computers.
- Classroom computers connected via 10/100/1000 Mbps Ethernet or wirelessly.
- Oshean serves as the Internet Service Provider (ISP), providing filtering and content control.

Internet Connection:

- Oshean provides a 500 Mbps connection to the Internet for each school
- Internet traffic validated and filtered through a firewall.

3.1.4 Policies

- Strict adherence to appropriate behavior and language on the school network.
- Mandatory signing of the Technology Use Policy by all staff and students.
- Additional policies outlined in Appendix E.

3.1.5 Security and Disaster Recovery

Access Security:

- Protection through Windows, Chrome OS, and Active Directory accounts.
- Internet filtering software to block inappropriate material.
- Limited email access for younger students.

Physical Security:

- Restricted access after school hours to prevent theft and damage.
- Network servers located in secured areas.
- Disaster recovery measures, including surge protection, UPS, and daily backups.

3.1.6 Telecommunications

- Telecommunication systems facilitate effective communication within the school and community.
- Multiple incoming lines and internal lines with voice mail for efficient communication.

3.2 Professional Development

- Professional development prioritizes student academic growth and achievement.
- A dedicated Technology Integration Specialist supports faculty with ongoing professional development opportunities.

3.3 Technology Support Personnel

- Technology Support Personnel include a full-time Director of Technology, a 30-hour/week Technology Support/Integration Specialist, and a part-time Hardware Specialist.

- A volunteer Technology Committee, comprising administrators, teachers, parents, and community members, meets as needed.

3.4 Funding

- Funding from town and state sources, supplemented by a 40% Erate subsidy for internet access.
- Efforts to secure grants and fundraising initiatives.
- Majority of the tech budget is funded by the Town of Jamestown.

3.5 School Website

- [Jamestown Schools website](#) provides information to students, parents, and community members.
- Classroom-specific information accessible through individual teacher pages.

3.5.1 Classroom Pages

- Teacher-maintained classroom pages offer specific information, adhering to the Web Site Policy (refer to Appendix E).
- Varied content, including monthly newsletters, pictures, and homework assignments.

4.0 Objectives

4.1 Teacher Support and Growth

- Ongoing support for teachers in learning, understanding, and utilizing technology tools.
- Proactive engagement with grade teams for personalized professional development.

4.2 Technology in the Curriculum

- Integration of common technology tools into the curriculum.
- Development of technology standards and collaboration with high schools for seamless transition.

4.3 Hardware/Software Availability

- Continual research into new software and hardware technologies.
- Goals include providing Chromebooks and iPads for students and laptops/Chromebooks for teachers.

4.4 Community Service

- Offering technology resources to the community, facilitating building use for various purposes.

4.5 Web Site

- Continued maintenance and expansion of the school website.

4.6 Internet

- Commitment to utilizing the internet as a vital educational resource.

4.7 Plan Management

- Annual review of the Technology Plan by the Tech Committee, with updates as needed.
- Minimum triennial review of the plan to ensure alignment with evolving educational needs.

Appendices

Appendix A: Timeline of Accomplishments

School yr 98-99		
	<i>Tech Support</i>	All Volunteer: Tech committee, network install, computer repair
School yr 99-00		
	<i>Tech Support</i>	Part-time Tech Specialist, coaches, volunteers
	<i>Accomplishments</i>	• 170 computers • Installed Firewall • Standardized S/W Suite (Office 97, IE5.0, OE, Internet access • Internet Filtering S/w installed (Surfwatch) • ISP connection upgraded to T1 (1.54 Mbps) • School Tech (Alphasmarts, Digital Cameras, Projectors)
School yr 00-01		
	<i>Tech Support</i>	Part-time support, split between Tech Specialist and Tech Coordinator, also with a Part-time Technician
	<i>Accomplishments</i>	• 190 computers • Network connection in all classrooms • Computer classes for Staff • Online Bulletin and Attendance • Automated Library Card Catalog (Follet Software)

		• Teacher participation in Web Site at 72% • School-wide antivirus S/W installed
School yr 01-02		
	Tech Support	full-time support, split between Tech Specialist, Tech Coordinator, and Technician
	Accomplishments	• Seelinger Lab – New computers and configuration • Robotics Curriculum in 3rd and 4th Grade • Begin scheduled replacement of classroom computers
School yr 02-03		
	Tech Support	full-time support, split between Tech Specialist, Tech Coordinator, and Technician
	Accomplishments	• Expanded Network by adding 24 port switch. • Added Network Laser Printer for Melrose 1st floor. • Purchased Yoiks! Software • Purchased Liberty's Kids • 26 New computers
School yr 03-04		
	Tech Support	full-time support, split between Tech Specialist, Tech Coordinator, and Technician
	Accomplishments	• Set up fixed Melrose Computer Lab • Purchased 3 additional Laser printers • Established Tech Mini-Grants for teachers

School yr 04-05		
	<i>Tech Support</i>	full-time support, split between Tech Coordinator, and Technician.
	Accomplishments	● Upgraded Network to Windows 2000 ● Set up 20 computer mobile lab for Lawn school. ● Set up 10 computer Robotics Lab
School yr 05-06		
	<i>Tech Support</i>	full-time support, split between Tech Coordinator, and Technician. Contracted with NK for select services.
	Accomplishments	● Expanded Wireless Network ● Upgrade 20 Melrose Lab Computers ● Replaced Library Laser Printers ● Rewired network panels in both server rooms.
School yr 06-07		
	<i>Tech Support</i>	full-time support, split between Tech Coordinator, and Technician. Contracted with NK for select services.
	Accomplishments	● Replaced primary switches in both schools ● Incorporated First Lego League competition into Tech Ed curriculum ● Purchased server and thin client machines for a future lab. ● Introduced web-based calendars for improved administration efficiency
07-08		●
	<i>Tech Support</i>	full-time support, split between Tech Coordinator, and Technician. Contracted with RINET for select services.

	Accomplishments	● Replaced batteries in Mobile lab laptops ● Installed a 1TB network backup server ● Introduced the 1st SmartBoard system into the 7/8 math classroom. ● Replaced the mobile lab cart to facilitate the use of the lab. ● Implemented a parent messaging service (Connect Ed) ● Purchased new cameras for each Library. ● Obtained classroom license for web-based language instruction.
School yr 08-09		
	Tech Support	full-time support, split between Tech Coordinator, and Technician. Outside consultants are used for select support
	Accomplishments	● Replaced the Business Server ● Purchased Color Printer for Lawn School ● Purchased and installed 5 SmartBoards ● Replaced Melrose PDC Server ● Continued replacement of W98 machines ● Purchased and installed SysAid Help Desk Software ● Upgraded the Lawn Library Computers ● Purchased Classlink lab management software
School yr 09-10		

	<i>Tech Support</i>	full-time support, split between Tech Coordinator, and Technician. Outside consultants are used for select support
		● Upgraded the Lawn Mobile Lab ● Replaced Melrose Lab computers with managed thin clients. ● Hardwired the Melrose Lab ● Hardwired the Tech-Ed Lab ● Installed Classroom Computer centers in Melrose ● Moved email to Google Apps ● Purchased additional Smart Boards for instructional rooms. ● Installed a new wireless system in Lawn for complete coverage.
<i>School yr 10-11</i>		
	<i>Tech Support</i>	full-time Director of Technology, Part-time Hardware Technician. Outside consultants are used for select support
		● Replaced Special Ed Teacher desktop computers with laptops. ● Established complete wireless coverage in the Melrose School ● Installed Classroom Computer centers in several Lawn instructional rooms. ● Provided all teachers with document cameras ● Purchased second mobile lab for 6th grade ● Replaced Tech-Ed lab computers with 7 iMacs. ● Increased bandwidth to 7MB ● Moved to a new Student Information System
<i>School yr 11-12</i>		

	<i>Tech Support</i>	full-time Director of Technology, Part-time Hardware Technician. Outside consultants are used for select support
		● Replaced 1/3 of Teacher desktop computers with laptops. ● Opened Parent Portal in Aspen ● Setup Cloud-Based Backup System ● Replaced Domain Server ● Replaced several network printers

<i>School yr 12-13</i>		
	<i>Tech Support</i>	full-time Director of Technology, Part-time Hardware Technician. Outside consultants are used for select support
		● Reconfigured Wireless to enhance security and support BYOD. ● Created Aspen Contact/Student Info Verification System ● Purchased 20 laptops for Melrose Mobile Lab ● Increased bandwidth to 20MB ● Replaced Melrose Lab Thin Clients with 20 AIO Desktops ● Provide 1/3 of teaching staff with laptops. ● Replaced Business Server

<i>School yr 13-14</i>	<i>Tech Support</i>	full-time Director of Technology, Part-time Hardware Technician. Outside consultants are used for select support
		● Purchased 20 tablet computers ● Reconfigured Terminal server and set up Dell Appassure Backup system ● Set up 2 iPad printers ● Purchased additional laptops to fill Lawn mobile labs to capacity (24)

		● Participated in RIDE WCI program ● Began Network overhaul ● Purchased 3D printer...
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School yr 14-15	Tech Support	full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		● Chromebooks for all students and their teachers in grades 3 & 4 ● Purchased our own filter so that we could filter Chromebooks off-site ● Participated in Phase II RIDE WCI program to fill in holes in coverage and connect data closets with fiber. ● Continued Network overhaul including virtualizing 3 servers ● Replaced 1/3 of the certified staff's laptops.

School yr 15-16	Tech Support	full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		● Chromebooks for all students and their teachers in grades 3,4 & 5 ● Distributed Melrose Computer lab computers to 1st & 2nd Grades. ● Re-configured lab into Early Elementary Maker Space. ● Rolled out Kindle Fires, 5 for each classroom K-2

School yr 16-17	Tech Support	full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		● Chromebooks for all students and their teachers in grades 3,4,5 & 6 ● Chromebook Bootcamp Grades 3-6 ● Arranged for Chromebook insurance to be available for interested parents. ● Updated Projectors in Lawn School

		● Reconfigured Lawn Library and Seelinger Lab to create space for a Lawn Makerspace. ● Makerspace designed and outfitted. ● 5th & 6th STEAM classes run. ● Replaced Smartboards in 7 / 8 Science and Math ● Began Coding Initiative
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School yr 17-18	Tech Support	full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		● Chromebooks for all students and their teachers in grades 3 - 7 ● Improved and Expanded Chromebook Bootcamp ● Replace aging BDC/ File Server in Lawn School ● Upgraded Projectors in Grades 3 & 4 ● Expanded formal Coding instruction to include K,1,2,3,4, 7 & 8

School yr 18-19	Tech Support	Full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		● Chromebooks for all students and their teachers in grades 3 - 8 ● Introduced shared Chromebooks to 2nd Grade. ● Replaced Firewall ● Upgraded Anti-virus software ● Took over instruction of STEAM/Coding in 5th & 6th Grade

<i>School yr 19-20</i>	<i>Tech Support</i>	Full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		● Chromebooks for all students and their teachers in grades 3 - 8 ● 5 Chromebooks per class in 2nd Grade. ● Added 5 Ipads per Class in 1st Grade ● Replaced 2 switches in Melrose ● Replaced 3 switches in Lawn ● Upgraded 22 Access points Melrose ● Upgraded 18 Access points Lawn ● Added 10 Access points and controller

<i>School yr 20-21</i>	<i>Tech Support</i>	Full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		● Chromebooks for all students and their teachers in grades 2 - 8 ● Ipads for all students Grade K & 1 ● Began centrally managing Ipads ● Started Upgrading teacher Chromebooks to 2 in 1 devices. ● Moved from Google Cloud Print to Mobility Print ● Purchased licenses for distance learning related software ● Began Cybersecurity Initiative

<i>School yr 21-22</i>	<i>Tech Support</i>	Full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		• Chromebooks for all students and their teachers in grades 2 - 8 • Ipads for all students Grade K & 1 • Completed upgrade of teacher Chromebooks to 2 in 1 devices. • Provided TA's with devices • Moved Lawn school from chromecast to managed Vivi casting solution • Implemented Google account MFA • Upgrading Win7 devices to Windows 10 • Redesigned Website • Continued Cybersecurity Initiative • Moved from IBoss to Securely Filter • Connected Lawn directly to Oshean Backbone • Switched AV software from Kaspersky to Sophos

<i>School yr 22-23</i>	<i>Tech Support</i>	Full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		• Continued 1 to 1 Chromebook Initiative with a set for incoming 3rd grade students. • Replaced 4th Grade Chromebooks with ECF Grant Funds • Redistributed original 4th Grade Chromebooks in Lawn to replace older Chromebooks • Add audio to Melrose Classrooms (In Progress) • Upgrade network switches (Delayed do to Supply Chain Issues)

		• Completed project to provide Lawn with direct internet access • Replace older projectors in 3rd - K & 1 classrooms as well as Libraries • Started Monitoring paper usage to look for possible cost savings opportunities • Cont. working on Cybersecurity framework including auditing, and training. • Supported reconfiguration of 5th grade and Lawn Makerspace (In Progress)
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<i>School yr 23-24</i>	<i>Tech Support</i>	Full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		• Continued 1 to 1 Chromebook Initiative with a set for incoming 3rd grade students. • Purchased 2nd & 3rd Grade Chromebooks with ECF Grant Funds • Redistributed original 2nd Grade Chromebooks to TA's and as loaners. • Chromebook boot camp for 2nd grade students typing, touchpad, mouse, navigating sites, etc... • Add audio to Melrose Classrooms • Started phasing out Laser Printers in favor of printing to Copiers for a per page cost savings. • Cont. working on Cybersecurity framework including auditing, prevention, and training.

<i>School yr 24-25</i>	<i>Tech Support</i>	Full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		• Replaced 2nd Grade Chromebooks with Dell 3110 Touchscreens • Rolled out AI resources for teachers • Replaced 6 old Lawn Smartboards with newer models. • Upgraded all access points in both buildings • Purchased Insurance for Teacher Chromebooks. • Cont. working on Cybersecurity framework including auditing, prevention, and training. • Upgraded all windows computers to Win11 • Awarded Cybersecurity & 21st Century grants • Upgraded teleconferencing systems

<i>School yr 25-26</i>	<i>Tech Support</i>	Full-time Director of Technology, Part-time Hardware Technician, Technology Integration Specialist. Outside consultants are used for select support
		• Started work on AI policy and training • Completed smartboard rollout to Lawn Core Classrooms • Began Smartboard rollout in Melrose • Purchased Insurance for Teacher Chromebooks. • Cont. working on Cybersecurity framework including auditing, prevention, and training. • Upgraded file server and business server Operating Systems • Upgraded teleconferencing systems

Appendix B: Jamestown School Hardware Purchasing Requirements

Jamestown Standard Software Suite

Currently, all newly purchased computers meet the following minimum requirements. Replacement as needed or when the operating system can no longer be updated.

Jamestown School Hardware Requirements

Windows

	New (min)
CPU	Pentium Core I5
CPU Speed	3 GHz
RAM	8GB
Hard Drive	256 G SSD
Monitor	20"
Peripherals	USB, HDMI

Chromebooks

Teacher	13" Intel Core I5 Processor with 8GB Memory and 256GB SSD
Student	11" Intel 3.6GHz, 8GB of memory, and 16GB of storage.

Appendix C:

July 2014

Jamestown Schools One to One Digital Learning Initiative

Effective use of technology in classrooms in the Jamestown Schools is increasing substantially each year. Looking for ways to improve student learning through the use of digital tools excites both teachers and students. We are enhancing classroom instruction with technology to maximize student growth. Our educational goal is not centered on purchasing devices. Our educational goal, as always, is to elevate each student to higher levels of academic achievement. Through the purchase of Chromebooks and Ipads, teachers will be able to infuse technology seamlessly into instruction. Teachers and students will have the opportunity to maximize the use of high quality digital educational tools. With coaching and support from the tech integration specialist, teachers will explore the limitless possibilities available and students will have the opportunity to discover exciting and creative ways to show what they have learned.

Device Distribution

- Chromebooks are introduced to all 2nd grade students. These Chromebooks remain in the classroom unless Distance Learning is required.
- In 3rd grade students are issued a Chromebook which they will use through 5th Grade. 6th grade students will receive a new chromebook which they will use through 8th grade. These devices can go home.
- Kindergarten and 1st grade classrooms are equipped with enough Ipads for each student. These Ipads remain in the classroom unless Distance Learning is required.

Training

- Professional Development on Google Apps for Education (GAPE)
- Continued “real-time” training throughout the school year (responsibility of Tech Support/ Integration Specialist) (grounded in topics aligned with the curriculum.
- Director of Curriculum will identify effective Chrome Apps for teaching and learning

Appendix D: 3 Year Tech Plan

→ School Year 25-26

◆ Objectives

- *Replace teacher devices (chromebook or laptop) as needed*
- *Continue 1 to 1 Chromebook Initiative with a set for incoming 3rd grade students.*
- *Continue to support Makerspace with manning and materials.*
- *Roll out AI resources for Melrose Teachers and continue PD for both schools*
- *Work with state on AI Policy*
- *Continue Conversation about student AI use and explore policies.*
- *Upgrade 2 servers*
- *Replace Kitchen POS units.*
- *Remove any remaining Windows 10 computers*
- *Continue replacing old Smartboards and rollout Smartboards at Melrose*
- *Continue Cybersecurity effort with the Addition of Managed Risk and NDR*

→ **School Year 26-27**

◆ **Objectives**

- *Replace teacher devices (chromebook or laptop) as needed*
- *Amend 1 to 1 Chromebook Initiative with a set for incoming 3rd grade students and a set for 6th grade students.*
- *Makerspace support*
- *Continue AI efforts including Policy and User Guidance*
- *Smartboards Melrose Grade 1 & 2 homerooms.*
- *Focus on Lumio training for experienced Smartboard Users.*
- *Continue Cybersecurity effort. (Training, Detect & Response)*
- *Replace in house controllers with Network Cloud controllers*
- *Set up Podcasting Studio in Lawn (Move from Melrose)*
- *Work with Facilities to outline future CTE spaces*

→ **School Year 27-28**

◆ **Objectives**

- *Replace teacher devices (chromebook or laptop) as needed*
- *Continue 1 to 1 Chromebook Initiative with a set for incoming 3rd & 6th grade students.*
- *Begin to Implement Lawn CTE Program*
- *Continue Reviewing AI's effect on education.*
- *Smartboards for Kindergarten Classrooms.*
- *Focus on Lumio training for experienced Smartboard Users.*
- *Continue Cybersecurity effort. (Training, Detect & Response)*

Appendix E: Coding Initiative

2024-2025 Coding Plan

Grade Level	Coding Experience	Language	When	Where	Led by	How Long
PreK 4	Sequential thinking	First, next, then, last	Specials	Library	Librarian	Throughout the Year
Kindergarten	Bee-Bot	Visual/Directional control./ PUzzles/ Colors	21st Century Skills Class	Library	Librarian	1 Quarter, weekly, minimum 4 periods.
Grade One	Bee-Bot/Bee-Bot Ipad	Bee-Bot App/ Blockly (Visual)	21st Century Skills Class	Library	Librarian	1 Quarter, weekly, minimum 8 periods.
Grade Two	Dash and Dot	Blockly (block Programming)	21st Century Skills Class	Library	Librarian	1 Quarter, weekly, minimum 8 periods.
Grade Three	Dash and Dot	Blockly (block Programming)	21st Century Skills Class	Library	Librarian	1 Quarter, weekly, minimum 8 periods.
Grade Four	Scratch	Scratch (Block Programming)	21st Century Skills Class	Library	Librarian	1 Quarter, weekly, minimum 8 periods.
Grade Five	Edison Robots	Python (Text)	Coding	Makerspace	Librarian	Weekly, minimum 6 periods.
Grade Six	Edison Robots	Python (Text)	Coding	Makerspace	Librarian	Weekly, minimum 6 periods.
Grade Seven	App Lab (24-25)	Javascript	RockBlock	Brittany's Room	ROCK Block Teacher	1 Quarter, weekly, minimum 8 periods.
Grade Eight	Codesters	Python	RockBlock	Nell's Room	ROCK Block Teacher	1 Quarter, weekly, minimum 8 periods.