Orange Board of Education
Three Year Technology Plan

2025-2028

Orange
Public Schools
"Good to Great"

Gerald Fitzhugh, II, Ed.D.
Superintendent of Schools

ORANGE TOWNSHIP BOARD OF EDUCATION

SHAWNEQUE JOHNSON
President

FATIMAH TURNER, PH.D.
Vice President

MEMBERS

David Armstrong
Siaka Sherif
Samantha Crockett
Tyrone Tarver
India Williams
Sueann Gravesande
Jeffrey Wingfield

SUPERINTENDENT OF SCHOOLS

Gerald Fitzhugh, II, Ed.D.

EXECUTIVE TEAM

Jason Ballard, CEFM, QPA, RSBO, *School Business Administrator* (SBA)
Faith Alcantara, *Office of Innovation/Community Engagement (ED)*
Shelly Harper, *Office of Special Education/Intervention (ED)*
Nancy Masoud, *Office of Human Resources* (ED)
Dwayne Ortiz, *Assistant School Business Administrator (ASBA)*
Jacquelyn Blanton, Ed.D., *Office of Early Learning (ED)*
Karen Harris, *Office of Humanities (ED)*
David Scutari, *Office of STEM-Focused Learning (ED)*

PRINCIPALS

Frank Asante, Ed.D., *STEM Innovation Academy of the Oranges* (Interim)
Jason Belton, *Orange High School*
Yancisca Cooke, Ed.D., *Forest Street Community School*
Natasha Cox, *Park Avenue School*
Cayce Cummins, Ed.D., *John Robert Lewis Early Childhood Center*
Dana Gaines, *Oakwood Avenue Community School*
Carrie Halstead, *Orange Preparatory Academy of Inquiry & Innovation*
Debra Joseph-Charles, Ed.D., *Rosa Parks Community School*
Karen Machuca, *Scholars Academy*
Robert Pettit, *Orange Early Childhood Center*
Erica Stewart, Ed.D., *Twilight Program*
Terence Wesley, *Cleveland Street School*
Denise White, *Central Elementary School*
Richele Woods, *Heywood Avenue School*
Patrick Yearwood, *Lincoln Avenue School*

ASSISTANT PRINCIPALS/DEAN OF STUDENTS

Noel Cruz, Dean of Students, *Lincoln Avenue School*
Linda Denis, *Orange High School*
Michael Dixon, *Orange Preparatory Academy of Inquiry & Innovation*
Samantha Fossella, *Orange Preparatory Academy of Inquiry & Innovation*
Kashiff Foster, *Cleveland Street School*
Anthony Frantantoni, *Orange High School*
Sandra Guerra, *Rosa Parks Community School*
Tarell Harp, *Orange Preparatory Academy of Inquiry & Innovation*
Shannon Keogh, *Forest Street Community School*
Yoniel Lopez, Ed.D., *Orange High School*
Aimie McKenzie-Smith, *Park Avenue School*
Dairon Montesino, *Orange High School*
Gerald J. Murphy, *Rosa Parks Community School*
Naga Philkhana, *Rosa Parks Community School*
Emily Shaltuper, *Heywood Avenue School*
April Stokes, Lincoln Avenue School
Christina Tighe, Ed.D., *Lincoln Avenue School*
Daniele Washington, *Central Elementary School*

SUPERVISORS

Delia Abreu, *ELA (3-8) & Media Specialists*
Tia Burnett, *Testing*
Loredana Cattabiani, *Early Learning*
MengLi Chi Liu, *Mathematics (9-12)*
Jonathan Clerie, *Visual & Performing Arts (K-12)*
Jahmel Drakeford, *CTE & Physical Education (K-8)*
Adriana Hernandez, *ELA (K-2) & Media Specialists*
Farjana Rahman, *Mathematics*
Emily Lamboy, *Bilingual/ESL & World Languages (K-5)*
Marc Levenson, *Social Studies (K-12)*
Amina Mateen, *Special Services*
Janet McClouden, Ed.D., *Special Services*
Mohamed Metwally, *STEM-Focused Learning (K-12)*
Henie Parillon, *Science (K-12)*
Frank Tafur, *Bilingual/ESL & World Languages (6-12)*
Marcey Thomas, *ELA (9-12)*
Felecia Williams-Ware, *Guidance*

MANAGERS

Jason Cordes, *Information Technology*
Barry Devone, *Community Engagement Officer*
Anthony Jackson, *Security*
Tya Marsh, *Human Resources*
Lisa Spottswood-Brown, *Data & Student Pupil Services*
Edwin Vasquez, *Building and Grounds*

Table of Contents

Three-Year Local School District Technology Plan
2025 through 2028

County**: Essex** | County Code**: 13**
District: **Orange** | District Code: **3880**
Grade Levels**: PreK - 12**

Website: www.orange.k12.nj.us
Date Technology Plan approved by School Board: June 11, 2025

Is District compliant with Children's Internet Protection Act (CIPA): Yes
Please indicate below person(s) to contact for questions regarding this Technology Plan:

Name: Jason Cordes
Title: Manager of Information Technology
Email: CordesJa@orange.k12.nj.us
Phone: (973) 677-4000 x50213

*Signature:*_____

Superintendent Approval

Superintendent: Gerald Fitzhugh, II, Ed.D.
Email: FitzhuGe@orange.k12.nj.us
Phone: (973) 677-4000 x50850

Signature_____

Technology Plan Stakeholder Committee

Title	Name	Signature
Superintendent/Curriculum	Gerald Fitzhugh, II, Ed.D.	
Business Administrator	James E. Ballard	
IT Manager	Jason Cordes	
Network Administrator	Uyi Okungbowa	
Database Administrator	Lisa Spottswood-Brown	
School Principal	Carrie Halstead	
Educational Technology	Faith Alcantara	
Teacher	Tera Phipps	
Teacher-Special Educator	Sharronda Tanner	

NJDOE Vision Statement

All students will be prepared to meet the challenge of a dynamic global society in which they participate, contribute, achieve, and flourish through universal access to people, information, and idea. In a digital world, students need to learn to use the tools to master the learning skills that are essential to everyday life and workplace productivity. The proficiency is known as ICT (information and communication technologies) literacy, defined by the Program for International Student Assessment as "the interest, attitude and ability of individuals to appropriately use digital technology and communication tools to access, manage, integrate and evaluate information; construct new knowledge; and communicate with others in order to participate effectively in society." This definition goes far beyond a narrow technical competency, which is a relatively low-level skill, to include higher-level skills, critical thinking, and intelligent, creative and ethical use of technology. - A Policymakers' Guide to 21st Century Skills (p.11).

Orange Public School's Vision Statement

Technology is the gateway to the future, and when executed properly is seamless in its infusion. In order to effectively address the rapid changes in technology and education today the Orange Board of Education must remain abreast of all technology related issues. The Orange Board of Education is committed to preparing today's students for life in the 21st century and beyond. In addition to technology, computer, and engineering course offerings, Orange Public Schools provides students, staff, and the community with opportunities that build a learning community, using technology as a learning resource and management tool. This technology enriched learning community affords students, staff, and families with the commitment to learning, collaboration, and a focus on equitable results.

Mission Statement

The Orange Public Schools will incorporate technology into all areas of the educational process by the infusion of a strengthened curriculum that acquires, applies, and evaluates its technology resources to best support the New Jersey Student Learning Standards. This endeavor will develop a community of life-long learners that will enable students to:

- Expand their knowledge base.
- Increase creativity
- Become more innovative
- Participate in technology troubleshooting
- Become self-directed learners
- Reinforce content area digital literacy
- Improve critical thinking, problem solving, and decision-making skills
- Collaborate with others to effectively complete a task
- Explore various professions involving technology
- Use assistive technology to augment the learning process
- Access, analyze, evaluate, and communicate information
- Use video to enhance their learning experiences
- Use technology to improve student achievement.
- Leverage AI tools to enhance student learning

Technology Overview

- **Equipment and Network Capacity:**
    - The district's technology network and infrastructure is a comprehensive system that allows for the users to adequately access all areas of technology, including but not limited to telecommunications, the Internet, educational software and various database management systems.
    - The district has implemented and maintained student 1:1 device model.
    - Most elementary schools have a minimum of one student workstation lab with at least 20-27 stations. As each lab's devices age out, additional devices are purchased.
    - Each classroom has a teacher station for using the mounted interactive boards. Additionally, schools have multiple carts of Chromebooks. All district schools are now part of a wireless environment that enhances the ability of teachers throughout the district to integrate tools of technology in their daily instruction, administer benchmark assessments, facilitate blended learning environments, and perform routine administrative task inclusive of attendance, maintain grade books, and perform mark reporting tasks within the district Student Information System (SIS).
    - All administrators have access to technology in their workplace via desktops and have portable devices with wireless connectivity.
    - The district accomplished one to one initiative to ensure access and equity for students at all 15 school locations.

- **Software and Filtering:**
    - The district's network and infrastructure is proficient to provide adequate access to the entire school community. The district's present focus is to continue to build upon the peripherals and software that is used with the current infrastructure. By providing a strong staff development program that infuses technology into the learning process and models integration use of technology within the curriculum, the district will achieve a stronger educational technology presence that encourages technology integration in all content areas.
    - The district has moved towards software that is web-based which provides less maintenance and use of server space and allows content to remain current. The following sites are utilized for blended and personalized learning: Discovery, NearPod, Padlet, Pear Tutor, iReady, ALEKS, BrainPop, NWEA, HMH Spring Board, Mango Languages, the DBQ Online Project, and other tools of technology that support our curricular standards and goals for learning.
    - Go-Guardian, Cisco Umbrella SIG, Cisco Fire Power Firewall, and Checkpoint Email Harmony and Collaboration, Barracuda Email Security(e-mail), CrowdStrike End Point Protection Suite are the tools used to secure our network infrastructure.
    - Google Workspace utilized as our LMS (Learning Management System).

- **Technology Maintenance Policy and Plan:**
    - With the growing infrastructure, the need to keep an expansive and cohesive infrastructure is mandatory. To help manage the process of dealing with maintenance, the district implemented SolarWinds Service Desk. A web service tracking system that reflects the help desk model and allows all technology staff to stay abreast of the technical needs of the district. All teachers, faculty members, and administrators have the ability to contact the Technology Department directly by submitting an electronic support ticket that is assigned to the district technology support staff directly.

    - This web-based software allows the IT Manager to assign all issues to Technology Coordinators and district System Engineers. The Service Desk system generates work order tickets to the assigned individual and progress on the ticket can easily be tracked and monitored. The tickets can be retrieved by district System Engineers at any location within the district and via district assigned smartphone application or browser. Monthly meetings are held amongst the technical staff to stay abreast of issues and best practices in technology advancements. The software provides reports and statistics to help better prepare the district for the upcoming year's budget.

- **Facilities Infrastructure:**

    Wireless Infrastructure

- As the district grows, so has the need to support advanced wireless functionality with increased bandwidth speeds and the latest wireless standards. The District upgraded its wireless infrastructure to the latest access points to be able to support all the new wireless standards using the Cisco Meraki Platform. Each district classroom and office space received a new Cisco Meraki wireless access point with increased functionality. The goal of this tech plan to is to maintain the integrity of this system and stay abreast of maintenance and security updates.

Building Maintenance System

- Historically the district has been challenged with proactively monitoring building maintenance systems such as Boilers, Central Air conditioning units and etc. We are now working with Trane Technologies to install the comprehensive solution "Tracer Synchrony" to proactively monitor Building Facility components. In this Technology plan, the district will continue to replace Building Facility components and add all components to the Building Maintenance Systems for proactive monitoring.

Security Surveillance System

The district has now installed a comprehensive security surveillance system by Cisco Meraki. This project addressed all security points, internal and external with a new high-end surveillance camera system using the same platform to manage the district's wireless infrastructure. In addition to basic surveillance monitoring, this system allowed security personnel and building administrators to remotely monitor their facilities as well as other advanced features. Under this Technology Plan we will be extending this Security Surveillance System to 2 more District sites. Our Lady of the Valley which will serve as Forest Street Community School Annex and the new Cleveland Street School building.

Cellular Repeater Service

- Because of the foundation of district buildings, it is very difficult for staff and students to receive a cellular signal to their personal cell phone devices. As a security concern, we installed a cellular repeater infrastructure that has increased the Cellular signal in each the following locations: Orange High School & Orange Preparatory Academy of Innovation and Inquiry.

LENS Security Notification System Installation

- As school violent incidents has increased across the nation, School districts are in need of an emergency alerting system that automates alerting authorities, district personnel, and students of security incidents in real-time. As a security initiative to become compliant with Alyssa's Law, the district is working with Eastern

  Datacom to install the LENS Security Lockdown and Notification System. This system has a suite of features that include emergency broadcast notifications over the existing PA system, automates notification to authorities and district

  stakeholders of security incidents in each school building and offers trigger points in the form of panic button and visual strobe lights to alert individuals outside of security threats inside each district building. Plans to integrate district building entry and exit points are to follow for emergency lockdown procedures. This project will continue into the new Technology Plan for 2025-2028 school years.

InformaCast Fusion

- InformaCast Fusion is a hybrid-cloud-based mass notification system that reaches people via on-premises and mobile devices. Reach people on every channel. Send notifications to IP phones, IP speakers, desktop computers, digital signage, mobile devices, and more so no one misses a message. In addition to above LENS platform this Service extends emergency notification to district devices to ensure all stakeholders are informed of security incidents.

Uniflow Printing Infrastructure

- Uniflow is a software-based printing solution for small and medium sized businesses designed to manage entire print environments. The solution aims to reduce overall printing costs and increase security by integrating our windows environment and user directory into the districts Canon copier fleet. This system will establish print quotas for Students and Faculty. In addition to managing and encouraging responsible printing it will allow the Orange Board of Education to monitor Print expenditures. All Canon copiers have card readers that will enable stakeholders to access and perform print copy and scan functions use existing ID cards associated with the district user.

Cisco IP phones

- The Orange Board of Education was able to facilitate installed a phones in each classroom and office space in each school building. This accessibility provides an alternative means for receiving information from parents and guardians. The communication between homes and schools has been strengthened. The goal of this tech plan is to maintain the integrity of this system and stay abreast of maintenance and security updates.

Network Equipment Refresh

- Switches are the core of a network infrastructure. It is what allows all devices such as Printers, Desktops, Security Cameras Phones and Wireless access points to connect to the internet. As network equipment is approaching end of the life cycle with the manufacturers it now time to start replacing network switches.
- Using E-rate Category 2 Funding in School Year 2025-2026 will be upgrading all networking equipment in larger elementary schools utilizing the last year of E-rate cycle funding.
- Leveraging Federal Erate funding, the Orange Board of Education will begin replacing network equipment at a 15% cost to the Orange Public School District.
  Project is set to begin in the School year 2025-2026 with Rosa Parks Community School, Central Elementary School, Lincoln Avenue School, Park Avenue School and STEM Innovation Academy of the Oranges. Remaining Schools to follow with anticipation of the new cycle of ERATE federal funding.

Promethean Interactive Smart Boards

We have replaced smart board technology with Interactive Promethean Board displays panels in each classroom. The Orange Board of Education will continue to replace and upgrade panels. This project will continue under this tech plan to maintain continuity of class and technology.

Telecommunications:

- As the district acquires more web services and has instituted a one-to-one device model for students, this has created an ongoing need to increase the bandwidth speed between each building as well as upgrade the internet bandwidth to accommodate all the new learning resources.

- In accordance with Industry standards, when utilization of Internet and network circuit connections between buildings meet thresholds of 50% percent or above its recommended to increase the bandwidth.

- Using Federal Erate funding with a 15-20% cost to district we will be looking to Increase internal district speeds from 1Gbps to 10Gbps and Internet Speed from 3 1Gbps speeds to two 5Gbps.

• **Technical support:**

- The district is currently utilizing over 10,000 computers, laptops, and Chromebooks. At present, the district has three systems engineers, one network administrator, one information technology manager, one database manager who are full-time employees of the Board of Education. Additional support

comes from outsourcing to help maximize the maintenance efficiency.

- **Replacement Plan:**
  - The Orange Board of Education adopts the concept that all computers are obsolete after five years and thus moves to replace all such computers. Using recycling vendors' services, the Orange Board of Education will recycle and replace all computers over five years old. All desktops and laptops for administrators will then be re-stocked and reconfigured. All labs are currently running a Windows 10 with anticipation of upgrading to Windows 11 and/or Mac OS latest Operating system.

  - All computer peripherals and accessories are replaced as needed.

  - To reduce our physical server footprint in District, we are preparing for the district to migrate to Microsoft Azure cloud services for our windows environment. This will ultimately reduce our need for physical Servers hosted at each school location and ultimately reduced the cost and time of maintenance; reduce energy usage while employing off-site cloud resources using hosted cloud services as a direct replacement.

- **Assistive Technology and Accessibility:**
  - It is important that all stakeholders be able to access and use the technology available to them. All special needs students have Individual Education Plans (IEPs) that describe the particular needs of each child. Currently the following assistive technologies have been put into place as per the child's IEP:
    - Phonic Ear Buds
    - Augmented Communication Device
    - Text to Speech and Speech to Text software
    - Several schools have an account with RFB&D (Reading for the Blind and Disabled), providing books on tape and or CD
    - iPads
  - In accordance with Federal Access Laws, the Orange Board of Education utilizes Smart Sites, a web hosting service. Pages can be found at www.orange.k12.nj.us .

Three-Year Technology Plan Inventory Table			
Area of Need	**Describe for 2025-2026**	**Describe for 2026-2027**	**Describe for 2024-2027-2028**
Technology Equipment	Interactive Panels, Chromebooks, Apple iPads Replace obsolete equipment	Interactive Panels, Chromebooks, Apple iPads Replace obsolete equipment	Interactive Panels, Chromebooks, Apple iPads Replace obsolete equipment
Networking Capacity	2GB Ethernet, 1GB TLS	10 GB Ethernet, 10GB TLS	10 GB Ethernet, 10GB TLS
Software used for curricular support and filtering	CrowdStrike Barracuda Cisco Umbrella SIG Go Guardian Check Point Harmony Email and Collaboration	CrowdStrike Barracuda Cisco Umbrella SIG Go Guardian Check Point Harmony Email and Collaboration	CrowdStrike Barracuda Cisco Umbrella SIG Go Guardian Check Point Harmony Email and Collaboration
Technology maintenance policy and plans	Consultants	Consultants	Consultants
Telecommunications Services	Xtel Communications, Verizon Internet and EVPL Services Comcast Business Internet Services	Xtel Communications, Verizon Internet and EVPL Services Comcast Business Internet Services	Xtel Communications, Verizon Internet and EVPL Services Comcast Business Internet Services
Technical Support	SolarWinds Service Desk Helpdesk system Consultants	SolarWinds Service Desk Helpdesk System Consultants	SolarWinds Service Desk Helpdesk System
Facilities – infrastructure including central telephone & security systems	Informacast Fusion Eastern Datacomm LENS Meraki Surveillance Tracer Synchrony(BMS)	Informacast Fusion Eastern Datacomm LENS Meraki Surveillance Tracer Synchrony (BMS)	Informacast Fusion Eastern Datacomm LENS Meraki Surveillance Tracer Synchrony (BMS)
Other Services:	PD Vendors	PD Vendors	PD Vendors

Cyber Safety

To provide the district with a safeguard against inappropriate access, use, and intrusion, we have followed a layered model approach that involves a solution at various levels of the district infrastructure to ensure cyber safety. At the device level, we have Go Guardian which is an application suite that offers basic filtering and lockdown features for student Chromebook devices. This system gives access to Teachers to manage classroom filtering in the event there is a need to block content on demand. We will also employ Apple Classroom for our PreK – Grade 2 classrooms districtwide for our students using iPads. Meraki Wireless access points in addition to providing wireless network access to student and faculty devices also provides basic website and malicious content filtering at the wireless access point level. As a comprehensive solution to the highest level of URL filtering the district has now put in place Cisco Umbrella SIG. The software is cloud based and has replace former URL Security system as the core URL filter for school year 2025-2026. As Websense offered the same functionality in URL filtering, Cisco Umbrella SIG offers offsite filtering for devices once they leave district school buildings and solution is completely cloud based where district is not subject to system outages hosting services on district internal Servers.

To protect district internal network access from outside threats, we upgraded from Cisco ASA firewall to the latest architecture of Cisco Fire Power Firewall. This not only offers the protection as it predecessor but now offers a cloud component for remote management and maintenance routines and modules have been expanded to support increase bandwidth speeds of up to 50Gbps.

The appropriate use of software and other types of technology are outlined in the district's Technology Manual and updated Acceptable Use Policy (AUP) for staff and students. The AUP also discusses the various perils and responsibilities the user must face as well as the consequences for failure to observe the code of conduct regarding cyber bullying.

All schools utilize training modules found in the Common Sense Media Digital Citizenship curriculum resources and lessons are delivered to students at all grade levels, K – 12, through Computer Literacy classes, Media/Information Literacy classes, and sessions facilitated directly by building based Technology Coordinator located in each building. Parent workshops are held in each school facilitated by Technology Coordinators to provide parents with key information and knowledge to maintain safe cyber environments at home on cell phones, Chromebooks and other technology devices their child may have access to. Resources are made available to parents on our Parent Resource pages via our district and school websites.

Needs Assessment

A comprehensive needs assessment is essential to ensure our plan aligns with our educational goals, addresses current gaps, and supports future readiness. This assessment is both data-driven and stakeholder-informed.

Our district has conducted a thorough review of our current technology infrastructure, including an inventory of all hardware, software, and network components. This assessment identified aging equipment in need of replacement, uneven distribution of classroom technologies, and areas with limited Wi-Fi coverage. Bandwidth demands are projected to increase, necessitating upgrades to network capacity and cybersecurity protections; some of which have already taken place. These findings will continue to guide strategic investments in modern, scalable, and secure infrastructure to support 21st-century learning.

Technology is being integrated into classroom instruction at varying levels across the district. While some teachers and schools have adopted digital tools to support personalized learning, formative assessment, and project-based learning, others require additional support and training. The needs assessment revealed opportunities to more closely align technology use with curriculum standards and learning goals, ensuring that students are not only consuming content but also creating, collaborating, and applying critical thinking skills through the use of digital tools.

Professional development in educational technology continues to be delivered by our building-based Technology Coordinators and has been further enhanced by our Verizon Innovative Learning Schools (VILS) initiative. For the 2025-2026 school year, we will add two more schools as VILS schools, bringing our total schools to five (3 elementary, 1 grade 8 and 1 high school). We will also now have five VILS Coaches whose primary responsibility is to provide intentional coaching to instructional staff on the integration of technology in instruction. These VILS coaches also provide professional development to our Technology Coordinators monthly to further build out our capacity to provide intentional training on the effective use of technologies districtwide. Many teachers have expressed interest in additional training focused on instructional strategies, classroom management in digital environments, artificial intelligence, gamification, and effective use of learning platforms. The plan will prioritize comprehensive, differentiated professional learning aligned with instructional goals and emerging technologies.

The district remains committed to ensuring equitable access to technology for all students. The needs assessment identified we have maintained consistent device access with our one-to-one student device plan (and loaner device fleet at all schools) and home internet connectivity via Kajeet devices and LTE enabled Chromebooks and iPads for VILS schools. Additionally, students with disabilities require more tailored access to assistive technologies. A central focus of the technology plan will include strategies to continue to refine our systems and processes for device management and support to ensure equitable access and supporting inclusive learning environments.

Stakeholder engagement played a key role in shaping the technology plan. Through surveys, focus groups, and meetings, feedback was collected from teachers, students, parents, and community members. Participants emphasized the need for reliable technology, increased support and training, and stronger connections between digital learning and real-world skills. Their insights highlighted the importance of clear communication, collaborative planning, and shared accountability in the successful implementation of educational technology initiatives.

Data privacy and cybersecurity continue to be critical priorities for the district. Moving forward, the district continues to review and revise our policies, invest in secure infrastructure, and provide training to ensure compliance with federal and state regulations. Emphasis is also placed on responsible data use to inform instruction and improve student outcomes.

Our educational technology plan is designed to align closely with the district's broader vision of fostering academic excellence, innovation, and equity. Technology will be leveraged as a tool to enhance learning, support instructional goals, and prepare students for success in college, careers, and digital citizenship. By aligning technology initiatives with strategic priorities and measuring progress against clear benchmarks, the district aims to build a future-ready learning environment for all students.

Summary

Several professional development days have been established throughout the school year to address the needs and concerns of staff. Additionally, PD opportunities are provided during monthly staff meetings, weekly teacher success periods, and summer workshops. The days include sessions in both pedagogy and technical abilities. Classes included but were not limited to:

- Microsoft Office 365
- EasyTech Software
- Web 2.0 tools
- Genesis
- Interactive panels (i.e. Promethean boards)
- Discovery Education
- Apple School Manager (Information Technology Department)
- Apple Classroom
- Apple Teacher
- Parent Square
- Smart Sites
- Padlet
- Nearpod/Flocabulary
- Google Workspace for Education Resources
- Frontline
- Apple Technology
- Clever
- HMH Resources
- Spring Board
- Adobe Premiere Pro/Illustrator/Photoshop

- Content specific software to support courses offered in our curriculum
- Various AI tools

Educators are assured access to technology to facilitate technology integration across the curriculum. A hard-wired and wireless environment enhances Internet connectivity. IWB's provide heightened presentation and application of skills.

Students district-wide have daily access to technology to support the use of 21st century skills in their learning environment. The district has implemented a one-to-one environment through the use of Chromebooks and iPads.

Technology Coordinators are present in every building to assist in the inventory and maintenance of all technology assets, training of staff in the integration of technology in their classroom instruction, and development/training of student tech teams to provide basic troubleshooting support and PD support as an extension of each technology coordinator. System Engineers and the Network Administrator are routinely assigned to service maintenance/repair requests through a Help Desk ticketing system.

Goals and Objectives for 2025-2028

The integration of technology into the curriculum offers the potential to augment students' learning experiences by providing instructional tools that deliver subject matter in innovative ways. The district's responsibility to prepare students to access, analyze, apply, and communicate information effectively can be achieved by modeling and encouraging the integration of cutting-edge technologies. Our goals and objectives for the next three years focus on leveraging artificial intelligence (AI), virtual reality (VR), augmented reality (AR), gamification, data analytics, and cybersecurity to enhance personalized learning, immersive experiences, student engagement, and digital equity. Additionally, we are committed to implementing an Apple iPads initiative for Early Childhood students and faculty members from PreK to 2nd grade, utilizing Apple Classroom with proper training and professional development. Furthermore, we will utilize LinkIt for data analytics to aid in State and District assessments, providing valuable insights to inform instructional strategies and improve student outcomes. Finally, we will transition from FinalSites Schoolwires to ParentSquare Smart Sites for web hosting and from BlackBoard Connect to ParentSquare for district messaging and alerts. These efforts will ensure that all students acquire the 21st-century technology skills necessary to be productive members of the community, workplace, and society at large.

Goal 1: All students will acquire 21st-century technology skills necessary to be productive members in the community, workplace, and society at large.

Objective 1: Integrate AI-driven personalized learning tools, including Lumi, to tailor educational content and pacing to individual student needs.

Objective 2: Utilize VR and AR to create immersive learning experiences.

Objective 3: Increase the use of gamification to boost student engagement and motivation.

Goal 2: All stakeholders in students' welfare, including educators and administrators, will increase their knowledge and level of 21st-century skills to effectively integrate educational technology across curricula.

Objective 1: Provide professional development on Apple, AI, VR, AR, and gamification applications in education for educators and administrators.

Objective 2: Use data analytics, including LinkIt, to inform instruction and identify areas for targeted interventions.

Goal 3: All students, educators, and administrators will be able to access and utilize educational technology resources for instructional and administrative purposes.

Objective 1: Enhance digital equity by ensuring all students have access to technology and the internet.

Objective 2: Maintain robust infrastructure to support Apple, AI, VR, AR, and gamification applications in education.

Goal 4: The maintenance of the district infrastructure will be robust in its accessibility and provide the necessary safety and security for all students and administrators.

Objective 1: Implement cybersecurity measures to protect digital information and ensure cyber safety.

Objective 2: Use AI to enhance emergency response systems and communication.

Goal 5: Utilize data analytics to aid in State and District assessments.

Objective 1: Implement LinkIt for comprehensive data analysis to support State and District assessments.

Objective 2: Use insights from LinkIt to inform instructional strategies and improve student outcomes.

Goal 6: Implement an Apple iPad initiative for Early Childhood students and faculty members from PreK to 2nd grade.

Objective 1: Provide Apple iPads to Early Childhood students and faculty members to enhance learning and teaching experiences.

Objective 2: Utilize Apple Classroom to manage and facilitate interactive learning sessions.

Objective 3: Offer comprehensive training and professional development for faculty on the effective use of Apple iPads and Apple Classroom.

Goal 7: Transition to ParentSquare Smart Sites for web hosting and ParentSquare for district messaging and alerts.

Objective 1: Replace the current web hosting platform, FinalSites Schoolwires, with ParentSquare Smart Sites by July 1, 2025.

Objective 2: Transition from BlackBoard Connect to ParentSquare for district messaging and alerts to streamline communication and improve community engagement.

Three-Year Technology Implementation Activity Table (2025-2028)

District Goal and Objective	Strategy/Activity	Timeline	Person Responsible	Documentation
Goal 1: Equip students with 21st-century technology skills				
Objective 1: Integrate AI-driven personalized learning tools	Implement AI tools like Lumi for personalized learning	7/2025 - 6/2026	IT Manager, Curriculum Supervisor	AI tool usage reports, student performance data
	Train teachers on AI tools integration	7/2025 - 6/2026	PD Coordinator, Technology Coordinators	Training logs, teacher feedback
Objective 2: Utilize VR and AR for immersive learning	Deploy VR and AR equipment and software in classrooms	7/2025 - 6/2027	IT Manager, Technology Coordinators	VR/AR integration logs, lesson plans
	Develop VR/AR-based curriculum modules	7/2025 - 6/2027	Curriculum Supervisor, Teachers	Curriculum documents, module evaluations
Objective 3: Increase use of gamification	Introduce gamification platforms and training for teachers	7/2025 - 6/2028	Technology Coordinators	Gamification platform usage reports, teacher feedback
	Create gamified learning activities for various subjects	7/2025 - 6/2028	Teachers, Curriculum Supervisor	Activity plans, student engagement data
Goal 2: Increase educators'				

and administrators' knowledge of 21st-century skills				
Objective 1: Provide professional development on emerging technologies	Conduct PD sessions on AI, VR, AR, and gamification	7/2025 - 6/2028	PD Coordinator, Technology Coordinators	PD attendance records, session evaluations
	Host workshops on integrating technology in classroom management	7/2025 - 6/2028	PD Coordinator, Technology Coordinators	Workshop materials, feedback forms
Objective 2: Use data analytics to inform instruction	Train staff on LinkIt data analytics platform	7/2025 - 6/2026	Data Analyst, Technology Coordinators	Training logs, data usage reports
	Implement data-driven instructional strategies	7/2025 - 6/2028	Curriculum Supervisor, Teachers	Strategy documents, performance metrics
Goal 3: Ensure access to educational technology resources				
Objective 1: Enhance digital equity	Distribute devices and ensure internet access for all students	7/2025 - 6/2028	IT Manager, School Principals	Device distribution records, internet access logs
	Provide technical support for device usage	7/2025 - 6/2028	IT Support Team	Support tickets, resolution logs
Objective 2: Maintain robust infrastructure	Upgrade network capacity and cybersecurity measures	7/2025 - 6/2028	IT Manager, Network Administrator	Network upgrade reports, security audit logs
	Regularly update and	7/2	IT Manager,	Maintenance logs,

	maintain hardware and software	025 - 6/2 028	System Engineers	update records
Goal 4: Maintain district infrastructure with safety and security				
Objective 1: Implement cybersecurity measures	Deploy advanced cybersecurity tools and training	7/2 025 - 6/2 028	IT Manager, Security Officer	Cybersecurity tool deployment logs, training records
	Conduct cybersecurity awareness programs for students and staff	7/2 025 - 6/2 028	Security Officer, Technology Coordinators	Program materials, attendance records
Objective 2: Use AI for emergency response systems	Integrate AI in emergency notification systems	7/2 025 - 6/2 027	Security Officer, IT Manager	AI system integration logs, emergency drill reports
	Train staff on emergency response protocols	7/2 025 - 6/2 027	Security Officer, School Principals	Training logs, protocol documents
Goal 5: Utilize data analytics for assessments				
Objective 1: Implement LinkIt for data analysis	Set up and train staff on LinkIt platform	7/2 025 - 6/2 026	Data Analyst, Technology Coordinators	LinkIt setup logs, training records
	Use LinkIt to track student progress and identify intervention needs	7/2 025 - 6/2 028	Teachers, Curriculum Supervisor	Progress reports, intervention plans
Objective 2: Use insights from LinkIt to improve outcomes	Analyze data to inform instructional strategies	7/2 025 -	Data Analyst, Curriculum Supervisor	Data analysis reports, instructional

		6/2028		strategy documents
	Regularly review and adjust instructional strategies based on data	7/2025 - 6/2028	Curriculum Supervisor, Teachers	Review logs, adjustment records
Goal 6: Apple iPad initiative for Early Childhood				
Objective 1: Provide iPads to Early Childhood students and faculty	Distribute iPads and set up Apple Classroom	7/2025 - 6/2026	IT Manager, Early Childhood Coordinator	iPad distribution records, Apple Classroom setup logs
	Develop interactive learning sessions using Apple Classroom	7/2025 - 6/2027	Early Childhood Teachers, Technology Coordinators	Session plans, student engagement data
Objective 2: Offer training on iPads and Apple Classroom	Conduct PD sessions for Early Childhood faculty	7/2025 - 6/2027	PD Coordinator, Technology Coordinators	PD attendance records, session evaluations
	Provide ongoing support and resources for iPad usage	7/2025 - 6/2028	Technology Coordinators	Support logs, resource materials
Goal 7: Transition to ParentSquare Smart Sites				
Objective 1: Replace current web hosting with ParentSquare	Migrate to ParentSquare Smart Sites	7/2025 - 12/2025	IT Manager, Communications Officer	Migration logs, user feedback
	Train staff on using ParentSquare Smart Sites	7/2025 - 6/2	Communications Officer, Technology Coordinators	Training logs, usage reports

Objective 2: Transition to ParentSquare for messaging	Set up and train staff on ParentSquare messaging	026 7/2 025 - 6/2	IT Manager, Communications Officer	Setup logs, training records
	Develop communication strategies using ParentSquare	026 7/2 025 - 6/2 027	Communications Officer, School Principals	Strategy documents, communication logs

Funding Plan

The Three-Year Technology Plan for the Township of Orange has a creation date of July 1, 2025**.** The Township of Orange is a district that supports spending and decision making at the building level. Each school creates a technology budget that supports its school's needs. Installation, maintenance, and district wide purchases are implemented at the district level. Schools are responsible for working in collaboration with district personnel to provide a comprehensive building technology model that will show the advancement and vision of technology in the classroom.

	Three-Year Educational Technology Plan Anticipated Funding Table 2025 -2026				
ITEM	**DESCRIPTION OF ITEM TO BE PURCHASED**	**FEDERAL FUNDING**	**STATE FUNDING**	**LOCAL FUNDING**	**MISC. (e.g. Donations, Grants)**
Digital Curricula and software tools (see NIMAS)	Scholastic: Pear Assessment, PLTW, NWEA, Discovery Education, Acadience, Gizmos, ALEKS, iReady, DBQ, Inner Orbit, Code HS, Kami, Braining Camp, Follett, Waggle, Amira, Acadience, Learning Ally, Packback, Saavas, Quaver Music, NewsELA, Springboard, Choices, Nearpod, Padlet, Flocabulary, Assistive Technologies for SWD, Teaching Strategies Gold, Teaching Strategies Creative Curriculum Cloud, Starfall	$221,000 + $50,000 (IDEA)	$18,975 + $66,300	$219,380	
Technology Equipment	Kajeets, Chromebooks, Laptops, Promethean Boards, tablets/notebooks, Apple Ipads	$305,000		$208,000	
Network	TLS 1000 MB	$331,200		$49,680	ERATE
Capacity	1000 Mbps Ethernet	$156,000		$23,400	ERATE
Filtering	Cisco Umbrella SIG, Barracuda, CrowdStrike MDR, Cisco Firewall, CheckPoint Email Harmony and Collaboration			$70,000	
Software	SolarWinds, Jamf Pro, Cisco Umbrella SIG, Cisco Intrusions and threat			$75,000	

	Detection Suite				
Maintenance	Consultants			$15,000	
Upgrades	Informacast (VoIP)			$17,500	
Policy and Plans					
Other services	PD Vendors, School wires, Go Guardian, Google Workspace, and Frontline	$112,465		$201,600	
Further Explanation:					

The total cost of ownership is shared between the school and district budgets as well as grant funded resources. The district receives additional funding from federal title grants as well as IDEA which have enabled the district to provide professional development opportunities and equipment to enhance instruction.

E-rate has been a substantial part of funding for the district's technology needs. This reimbursement process provides a discount rate of about 85%. This cost savings allows for the district to spend 15% towards Internet access, infrastructure, and telecommunication needs.

	Three-Year Educational Technology Plan Anticipated Funding Table 2026 – 2027				
ITEM	**DESCRIPTION OF ITEM TO BE PURCHASED**	**FEDERAL FUNDING**	**STATE FUNDING**	**LOCAL FUNDING**	**MISC. (e.g. Donations, Grants)**
Digital curricula (see NIMAS)	Scholastic: Pear Assessment, PLTW, NWEA, Discovery Education, Acadience, Gizmos, ALEKS, iReady, DBQ, Inner Orbit, Code HS, Kami, Braining Camp, Follett, Waggle, Amira, Acadience, Learning Ally, Packback, Saavas, Quaver Music, NewsELA, Springboard, Choices, Nearpod, Padlet, Flocabulary, Assistive Technologies for SWD, Teaching Strategies Gold, Teaching Strategies Creative Curriculum Cloud, Starfal	$232,050		$230,349	
Technology Equipment	Kajeets, Chromebooks, Laptops, Promethean Boards, and iPads	$303,866		$228,800	
Network	TLS 1000 MB	$331,200		$49,680	
Capacity	10000 Mbps Ethernet	$156,000		$23,400	
Filtering	Websense, Barracuda, Symantec, Firewall			$70,000	
Software	SolarWinds, NCS, Casper Suite, Cisco Umbrella			$75,000	
Maintenance	Consultants			$15,000	
Upgrades	Informacast (VoIP)			$17,500	
Policy and Plans					
Other services	PD Vendors, School wires, Frontline, Go Guardian and Google Workspace	$118,088		$211,680	

Further Explanation:	

	Three-Year Educational Technology Plan Anticipated Funding Table 2027 – 2028				
ITEM	**DESCRIPTION OF ITEM TO BE PURCHASED**	**FEDERAL FUNDING**	**STATE FUNDING**	**LOCAL FUNDING**	**MISC. (e.g. Donations, Grants)**
Digital curricula (see NIMAS)	Scholastic: Pear Assessment, PLTW, NWEA, Discovery Education, Acadience, Gizmos, ALEKS, iReady, DBQ, Inner Orbit, Code HS, Kami, Braining Camp, Follett, Waggle, Amira, Acadience, Learning Ally, Packback, Saavas, Quaver Music, NewsELA, Springboard, Choices, Nearpod, Padlet, Flocabulary, Assistive Technologies for SWD, Teaching Strategies Gold, Teaching Strategies Creative Curriculum Cloud, Starfall	$243,652		$241,866	
Technology Equipment	Kajeets, Chromebooks, Laptops, Promethean Boards, and iPads	$329,386		$251,680	
Network	TLS 10 Gbs	$400,000		$60,680	
Capacity	10 Gbs Mbps Ethernet	$200,000		$30,400	
Filtering	Cisco Umbrella, Barracuda, Crowdstrike, Firewall			$280,000	
Software	SolarWinds, Jamf Pro, Cisco Umbrella			$75,500	
Maintenance	Consultants			$30,000	
Upgrades	Network Refresh	364,000		$120,000	
Policy and Plans					
Other services	PD Vendors, School wires, Frontline, Go Guardian and Google Workspace	$123,992		$222,264	
Further Explanation:					

Professional Development

The Orange Board of Education is committed to providing ongoing, high-quality professional development to ensure that educators and administrators are equipped with the skills and knowledge necessary to effectively integrate technology into the curriculum. This commitment aligns with the district's broader goals of enhancing student achievement, fostering innovation, and ensuring digital equity.

The professional development initiatives will align with the ISTE Standards for Students, Educators, and Education Leaders:

- ISTE Standards for Students:
    - Empowered Learner: Students will leverage technology to take an active role in their learning goals.
    - Digital Citizen: Students will understand the responsibilities and opportunities of digital communities.
    - Knowledge Constructor: Students will use digital tools to construct knowledge and produce creative artifacts.
    - Innovative Designer: Students will use technologies to identify and solve problems creatively.
    - Computational Thinker: Students will develop problem-solving skills through computational thinking.
    - Creative Communicator: Students will communicate ideas effectively using digital tools.
    - Global Collaborator: Students will collaborate with others globally using technology.
- ISTE Standards for Educators:
    - Learner: Educators will continually improve their practice by learning from and with others.
    - Leader: Educators will advocate for equitable access to technology and digital resources.
    - Citizen: Educators will model digital citizenship and responsible use of technology.
    - Collaborator: Educators will collaborate with colleagues and students to improve learning.
    - Designer: Educators will design authentic, learner-driven activities using technology.
    - Facilitator: Educators will facilitate learning with technology to support student achievement.

- Analyst: Educators will use data to drive their instruction and support student learning.

Alignment with NJSLS:

The professional development initiatives will also align with the New Jersey Student Learning Standards (NJSLS) across various content areas:

- English Language Arts: Training will focus on integrating technology to enhance reading, writing, speaking, and listening skills.
- Mathematics: Professional development will include using technology to support mathematical investigation, communication, and problem-solving.
- Science: Educators will learn to use technology to facilitate scientific inquiry and experimentation.
- Social Studies: Training will cover the use of digital tools to explore historical events, civic engagement, and global issues.
- Visual and Performing Arts: Professional development will include using technology to create and share artistic works.
- World Languages: Educators will learn to use technology to support language acquisition and cultural understanding.
- Career Readiness, Life Literacies & Key Skills: Training will focus on preparing students for postsecondary success through technology integration.

The district and each school prepares their yearly professional development plan that identifies their training priorities for the school year. This plan details the professional learning goals for the year, activities that will take place towards meeting the defined learning goals, the resources that will be utilized and other implementation considerations. The professional development plan also provides each school and the district to indicate their progress towards plan implementation and goal attainment. The integration of technology across all disciplines in all grade levels will be an important component of each plan developed.

Evaluation Plan

The evaluation plan for the Orange Board of Education Technology Plan is designed to monitor the progress and effectiveness of the goals and objectives outlined for 2025-2028. This plan ensures that the integration of technology into the educational process is continuously assessed and improved to support student achievement, innovation, and digital equity.

Evaluation Strategies

1. Monitoring and Reporting

    a. Monthly Meetings: Technology Coordinators will meet monthly to review progress, evaluate strategies, and make necessary adjustments.
    b. Quarterly Reports: Generate quarterly reports on the implementation of technology initiatives, including AI, VR, AR, gamification, and data analytics.
    c. Annual Review: Conduct an annual review of the technology plan to assess overall

progress and effectiveness.

2. Data Collection and Analysis
    a. Usage Data: Collect data on the usage of AI tools, VR/AR equipment, gamification platforms, and other technology resources.
    b. Performance Metrics: Analyze student performance data to measure the impact of technology integration on learning outcomes.
    c. Feedback Surveys: Conduct surveys with educators, students, and parents to gather feedback on technology initiatives and professional development.
3. Professional Development Evaluation
    a. PD Attendance Records: Track attendance and participation in professional development sessions.
    b. Session Evaluations: Collect evaluations from participants to assess the quality and effectiveness of training.
    c. Follow-Up Support: Provide ongoing support and resources to ensure the successful implementation of training.
4. Infrastructure and Cybersecurity
    a. Network Monitoring: Regularly monitor network capacity and performance to ensure robust infrastructure.
    b. Security Audits: Conduct cybersecurity audits to evaluate the effectiveness of security measures and identify areas for improvement.
    c. Emergency Response Drills: Implement and evaluate emergency response drills to ensure preparedness and effectiveness of AI-enhanced systems.
5. Digital Equity and Access
    a. Device Distribution Records: Track the distribution and usage of devices to ensure equitable access for all students.
    b. Internet Access Logs: Monitor internet access to ensure all students have reliable connectivity.
    c. Technical Support Tickets: Analyze support tickets to identify common issues and improve technical support.
6. Data Analytics and Assessment
    a. LinkIt Usage Reports: Monitor the usage of LinkIt for data analysis and assessment.
    b. Instructional Strategy Reviews: Regularly review and adjust instructional strategies based on data insights.
    c. Student Progress Reports: Track student progress and identify areas for targeted interventions.

7. Apple iPad Initiative

    a. iPad Usage Logs: Monitor the usage of Apple iPads and Apple Classroom.
    b. Training Records: Track participation in training sessions and evaluate their effectiveness.
    c. Interactive Learning Sessions: Assess the impact of interactive learning sessions on student engagement and achievement.

8. Parent Square Transition

    a. Migration Logs: Monitor the migration process to Parent Square Smart Sites.
    b. User Feedback: Collect feedback from staff and parents on the new web hosting and messaging platforms.
    c. Communication Logs: Evaluate the effectiveness of communication strategies using Parent Square.

Mid-Course Corrections

The evaluation plan includes a process for making mid-course corrections in response to new developments and opportunities:

- Continuous Feedback Loop: Establish a continuous feedback loop with stakeholders to identify emerging needs and opportunities.
- Adaptive Strategies: Adjust implementation strategies based on feedback and data analysis to ensure alignment with goals and objectives.
- Innovation and Improvement: Encourage innovation and continuous improvement in technology integration and professional development.

By implementing this comprehensive evaluation plan, the Orange Board of Education aims to ensure the successful integration of technology into the educational process, supporting student achievement, innovation, and digital equity.

Three Year Technology Plan Professional Development Table

Educators' Proficiency/Identified Need	Ongoing, Sustained, High-Quality Professional Development Planned	Support
Integration of AI Tools	Training on AI-driven personalized learning tools like Lumi.	Technology Coordinators, AI tool usage reports, student performance data.
Use of VR and AR	Workshops on deploying VR and AR equipment and software in classrooms.	Curriculum Supervisor, Technology Coordinators, VR/AR integration logs, lesson plans.
Gamification Strategies	Sessions on introducing gamification platforms and creating gamified learning activities.	Technology Coordinators, gamification platform usage reports, teacher feedback.
Data Analytics	Training on LinkIt data analytics platform and implementing data-driven instructional strategies.	Data Analyst, Technology Coordinators, training logs, data usage reports.
Digital Equity	Ensuring device distribution and internet access for all students, providing technical support.	IT Manager, School Principals, device distribution records, internet access logs.
Cybersecurity Awareness	Programs on cybersecurity measures and awareness for students and staff.	Security Officer, Technology Coordinators, program materials, attendance records.
Apple iPad Initiative	Professional development on using Apple iPads and Apple Classroom for Early Childhood faculty.	PD Coordinator, Technology Coordinators, PD attendance records, session evaluations.
Parent Square Transition	Training on using Parent Square Smart Sites for web hosting and messaging.	Communications Officer, Technology Coordinators, training logs, usage reports.
Interactive Panels and Chromebooks	Training on using Promethean boards and Chromebooks in classroom instruction.	Technology Coordinators, session plans, student engagement data.
Assistive Technology	Workshops on using assistive technologies like Phonic Ear Buds, Augmented Communication Devices, and Text-to-Speech software.	Special Education Coordinators, session evaluations, student progress reports.
Digital Curricula	Training on using digital curricula tools like Discovery Education, NearPod, Padlet, iReady, and BrainPop.	Curriculum Supervisor, Technology Coordinators, usage reports, teacher feedback.
Emergency Response Systems	Training on AI-enhanced emergency notification systems like LENS and InformaCast Fusion.	Security Officer, IT Manager, training logs, emergency drill reports.

Goals and Objectives Alignment

- **Goal 1**: Equip students with 21st-century technology skills.
  - **Objective 1**: Integrate AI-driven personalized learning tools.
  - **Objective 2**: Utilize VR and AR for immersive learning.
  - **Objective 3**: Increase use of gamification.
- **Goal 2**: Increase educators' and administrators' knowledge of 21st-century skills.
  - **Objective 1**: Provide professional development on emerging technologies.
  - **Objective 2**: Use data analytics to inform instruction.
- **Goal 3**: Ensure access to educational technology resources.
  - **Objective 1**: Enhance digital equity.
  - **Objective 2**: Maintain robust infrastructure.
- **Goal 4**: Maintain district infrastructure with safety and security.
  - **Objective 1**: Implement cybersecurity measures.
  - **Objective 2**: Use AI for emergency response systems.
- **Goal 5**: Utilize data analytics for assessments.
  - **Objective 1**: Implement LinkIt for data analysis.
  - **Objective 2**: Use insights from LinkIt to improve outcomes.
- **Goal 6**: Apple iPad initiative for Early Childhood.
  - **Objective 1**: Provide iPads to Early Childhood students and faculty.
  - **Objective 2**: Offer training on iPads and Apple Classroom.
- **Goal 7**: Transition to Parent Square Smart Sites.
  - **Objective 1**: Replace current web hosting with Parent Square.
  - **Objective 2**: Transition to Parent Square for messaging.

Our comprehensive **Three-Year Technology Plan (2025-2028)**, is designed to enhance the educational experience for all students, educators, and administrators within our district. This plan reflects our commitment to integrating cutting-edge technology into the educational process, ensuring that our students are well-prepared for the challenges of the 21st century.

Key Highlights of the Plan:

1. **Vision and Mission**:

- Our vision is to create a technology-enriched learning community that fosters academic excellence, innovation, and digital equity.
- The mission is to incorporate technology into all areas of education, supporting the New Jersey Student Learning Standards and developing life-long learners.

2. **Goals and Objectives**:
   - Equip students with essential 21st-century technology skills.
   - Provide ongoing professional development for educators and administrators.
   - Ensure equitable access to technology resources for all stakeholders.
   - Maintain robust infrastructure with enhanced safety and security measures.
   - Utilize data analytics to inform instructional strategies and improve student outcomes.
   - Implement an Apple iPad initiative for Early Childhood education.
   - Transition to ParentSquare Smart Sites for improved communication and web hosting.
3. **Technology Overview**:
   - Comprehensive network and infrastructure supporting 1:1 device model, interactive boards, Chromebooks, and wireless environments.
   - Use of advanced software and filtering tools to ensure secure and effective technology integration.
   - Maintenance policies and plans to keep the infrastructure up-to-date and functional.
4. **Implementation Strategies**:
   - Integration of AI-driven personalized learning tools.
   - Utilization of VR and AR for immersive learning experiences.
   - Increased use of gamification to boost student engagement.
   - Professional development sessions on emerging technologies.
   - Ensuring digital equity and cybersecurity awareness.
5. **Funding Plan**:
   - Detailed funding sources including federal, state, local, and miscellaneous funds to support technology equipment, digital curricula, network capacity, filtering, software, maintenance, and upgrades.
6. **Evaluation Plan**:
   - Continuous monitoring and reporting of progress.
   - Data collection and analysis to measure the impact of technology integration.
   - Regular reviews and adjustments based on feedback and new developments.

Engagement and Collaboration:

The successful implementation of this technology plan relies on the active participation and collaboration of all stakeholders, including students, parents, educators, administrators, and community members. Through surveys, focus groups, and meetings, we have gathered valuable insights that have shaped this plan to meet the needs and aspirations of our community.

Commitment to Excellence:

The Orange Board of Education is dedicated to fostering an environment where technology enhances learning, supports instructional goals, and prepares students for success in college, careers, and digital citizenship. By aligning our technology initiatives with strategic priorities and measuring progress against clear benchmarks, we aim to build a future-ready learning environment for all students.

We invite all stakeholders to join us in this exciting journey towards a technologically advanced and equitable educational experience. Together, we can ensure that our students are equipped with the skills and knowledge necessary to thrive in a dynamic global society.

Updates and improvements to all areas of technology will be on a continuous basis due to the evolving advancements in technology and its applications to education and society.

**** *This should not be included in our FINAL version. This appears to be a checklist that we should use to ensure we have not misse an sections of the plan.**

NJ Department of Education
District/Nonpublic School/ Charter School
Three-Year Educational Technology Plan Checklist

DIRECTIONS: Place a check ☑ in the unshaded **COMPLETED** column when the **TASK** has been completed.

TASK	Completed	
	Req'd by E-Rate	**Not req'd E-Rate**
DATE: Provide your educational technology plan's creation date (the date when the technology plan first contained all the required elements in sufficient detail to support the products and services requested on the Form 470).	p.3	

DIRECTIONS:

- Answers to questions regarding e-rate compliance: Address the numbered items below in a separate District/Nonpublic School/Charter School educational technology plan document.
- Indicate in the *PAGE #* column, the page number where the corresponding information is found.
- For purposes of this document, "educators" are defined as school staff who teach children, including librarians and media specialists.
- Sample table templates are provided (see links embedded in this document) to assist in the development of the educational technology plan. Please use these table templates unless information is already in a digital form.

	Indicate in the unshaded spaces the page number where the corresponding information is found	
	Req'd by E-Rate	**Not req'd by E-Rate**
TECHNOLOGY INVENTORY: 1. Describe the technology inventory <u>needed to improve</u> student academic achievement in the 2025-2026 school year that informs the basis for the Form 470. Include in the description the internal connections and basic maintenance *<u>for 12 months of the e-rate funded year</u>*, such as the following areas: a) Technology equipment including assistive technologies b) Networking capacity c) Filtering method d) Software used for curricular support and filtering e) Technology maintenance and support f) Telecommunications equipment and services g) Other services **NOTE:** If this plan is intended to be used for three years of E-Rate funding, provide anticipated inventory information for all three years. See Inventory Sample Table. Definitions of items eligible for e-rate discounts: <u>http://www.usac.org/sl/applicants/beforeyoubegin/eligible-services/default.aspx</u>	p. 9	
NEEDS ASSESSMENT: 2. Describe the needs assessment process that was used to identify the necessary telecommunication services, hardware, software, and other services to improve education.	p.10	

	Indicate in the unshaded spaces the page number where the corresponding information is found	
	Req'd by E-Rate	**Not req'd by E-Rate**
THREE-YEAR GOALS: **3.** List clear goals for 2025-2028 that address district needs. There must be strong connections between the proposed physical infrastructure (bandwidth, cabling, electrical systems, networks) and goals. Include goals for using telecommunications and technology that support 21st century learning communities.	Pp 15-17	
THREE-YEAR IMPLEMENTATION AND STRATEGIES TABLE: I 4. Describe the realistic implementation strategies to improve education. Include in the description the timeline, person responsible and documentation (or evidence) that will prove the activity occurred. Address only 'a' and 'b' below to meet e-rate requirements. Address all areas below to continue planning for a technology-rich learning environment. a. telecommunications, b. information technology, c. educational technology (including assistive technologies), and d. student technology readiness in preparation for online testing in 2025-2028. e. web hosting f. district messaging platform g. cyber security	Pp 18	
		p.14
PROFESSIONAL DEVELOPMENT STRATEGIES: 5. Professional development strategies should ensure that staff (teachers, school library media personnel and administrators) knows how to effectively use the technologies described in this plan to improve education and will continue to support identified needs through 2028. *Address only 'a' below to meet e-rate requirements. Address all areas below to continue planning for a technology-rich learning environment*. Describe the planned professional development strategies by addressing each of the following questions: a) How will ongoing, sustained professional development be provided to all educators, (including administrators) that increases effective use of technology in all learning environments, models 21st century skills, and demonstrate learning experiences through global outreach and collaboration in the classroom or library media center?	p.23-24	
b) What professional development opportunities, resources and support (online or in person) exist for technical staff?		p.24
c) How will professional development be provided to educators on the application of assistive technologies to support educating all students?		p.25
EVALUATION PLAN: 6. Describe the evaluation process that enables the progress and effectiveness of goals to be monitored.	Pg 24 & 28	
7. Describe the process to make mid-course corrections in response to new developments and opportunities as they arise.	p.28	

FUNDING PLAN July 2025 – June 2028 8. Provide the anticipated costs for (This date is incorrect) by source of funds (federal, state, local and other) and include expenses such as hardware/software, digital curricula including NIMAS compliance, upgrades and other services including print media that will be needed to achieve the goals of this plan. Allow specific provisions for interoperability among components of such technologies to successfully achieve the goals of this plan.		p. 19-22