

Frewsburg Central School District

Technology Plan

July 1, 2026-June 30, 2029

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DISTRICT MISSION STATEMENT

The Frewsburg Central School District is committed to providing a learning environment in which each student is guided to pursue excellence in all areas of academics, athletics, and extracurricular activities.

INTRODUCTION

The purpose of this document will be to establish a framework for the inclusion of technology into the curriculum offering of this district, as well as assessment of student skills and aptitudes, and improvement of current school management techniques.

The Board of Education charges the technology committee with developing a plan which will:

- Be educationally sound. All decisions shall be based on the educational welfare of the students.
- Be fiscally responsible. This plan, while reflective of student needs, shall also be implemented in a manner that will reflect good fiscal management.
- Be based on the best information currently available to the district. It is further understood that technology is constantly changing and therefore, this plan shall be assessed and updated annually, reflecting both technological change and changes in district needs.

This plan primarily addresses the educational component of the district's technology. It should be noted that other areas of district operation also require updating or installation of new technology. The technological needs of food service, facility maintenance, and the transportation departments, as well as the business office are addressed and met by the district's technology department.

VISION

Frewsburg Central School District is committed to preparing students for a world shaped by rapid and continuous technological change.

To thrive in this environment, students must not only be skilled with today's tools but also ready to adapt to tomorrow's innovations.

Our vision is twofold:

1. Empower students with practical, relevant technology skills that support learning, creativity, communication, and real-world application—in school, in the workplace, and in their personal growth.
2. Develop adaptable, resilient learners who can confidently integrate new technologies, think critically, and leverage digital tools to achieve their goals as socially responsible, digitally literate citizens.

We believe technology should be seamlessly integrated across all academic areas, enriching instruction rather than existing as a standalone subject. Instructional technology should support differentiated learning, allowing students to move at an appropriate pace, pursue areas of interest in greater depth, and extend their learning beyond traditional boundaries.

INSTRUCTIONAL GOALS

Goal 1:

By June 2029, the district will implement a comprehensive AI-literacy program in grades 3–12 by providing annual professional development to 100% of certificated staff and integrating at least two grade-appropriate lessons on ethical and responsible AI use into each building's instructional plan.

Goal 2:

Develop and implement a K–12 curriculum aligned with the NYS Computer Science and Digital Fluency Standards that builds student skills in social media marketing, TV/video production, digital storytelling, multimedia design, and emerging technology tools over a three-year period. Create a standards-aligned scope and sequence, at least 10 instructional units, and supporting rubrics, and pilot multiple units each year with feedback from teachers and students.

Goal 3:

By the end of the 2029 school year, the district will strengthen research and media-literacy instruction by providing professional development to at least 100% of teachers and delivering a structured series of lessons to all students in grades 3–12, resulting in a documented increase in students' ability to evaluate sources and navigate digital information. At least 80% of students in grades 3–12 will demonstrate proficiency in evaluating the credibility, relevance, and accuracy of digital sources—as measured by a district-developed rubric.

Goal 4:

By June 2029, the District will implement a K–12 digital citizenship curriculum that provides instruction on online safety, responsible communication, and appropriate digital behavior, with the goal of reducing cyberbullying-related discipline referrals by 20% compared to the baseline (2025-2026 levels). Monthly monitoring of referrals will track progress for all students in grades K–12.

INFRASTRUCTURE GOALS

Goal 1:

Sustain a secure, scalable, and future-ready technology infrastructure that ensures reliable access to high-quality digital content, instructional tools, and data systems for all students and staff.

Goal 2:

Leverage technology to strengthen communication, collaboration, and engagement with parents, families, and the broader community through accessible, timely, and effective digital platforms.

Goal 3:

Utilize technology to enhance building safety and security systems, supporting a safe learning and working environment for students, staff, and visitors.

CURRICULUM

Goal 1: Artificial Intelligence (AI) Literacy

Goal:

By June 2029, the District will develop, implement, and continuously refine a K–12 AI Literacy curriculum that equips students with the knowledge and skills to understand, evaluate, and responsibly use artificial intelligence. The curriculum will include grade-level learning progressions, interdisciplinary instructional resources, performance tasks, and assessments aligned with district instructional priorities. Curriculum teams will annually review emerging AI technologies and update instructional materials to ensure relevance and ethical application across all content areas.

Success Indicators:

- K–12 AI Literacy learning progression developed and implemented.
- AI concepts embedded within core content areas where appropriate.
- Curriculum maps include AI literacy outcomes and instructional resources.
- Annual curriculum review process established to address evolving technologies.
- Student performance tasks demonstrate ethical, responsible, and effective AI use.

Goal 2: Computer Science and Digital Fluency

Goal:

By June 2029, the District will fully implement a vertically aligned K–12 Computer Science and Digital Fluency curriculum aligned with the New York State Computer Science and Digital Fluency Standards. The curriculum will provide students with authentic learning experiences in computational thinking, digital creativity, multimedia production, coding, digital communications, social media marketing, video production, digital storytelling, and emerging technologies while ensuring equitable access to high-quality instructional experiences.

Success Indicators:

- Complete K–12 scope and sequence aligned to NYS standards.
- Minimum of 10 standards-aligned instructional units developed.
- Common performance assessments and rubrics implemented districtwide.
- Curriculum revised annually using teacher and student feedback.
- Students demonstrate increasing proficiency in digital fluency competencies across grade levels.

Goal 3: Research and Media Literacy

Goal:

By June 2029, the District will establish a comprehensive K–12 research and media literacy curriculum that develops students' ability to locate, analyze, evaluate, synthesize, and ethically use digital information. Curriculum materials will emphasize critical thinking, source evaluation, misinformation detection, citation practices, and responsible digital scholarship across all content areas.

Success Indicators:

- Research and media literacy competencies embedded into curriculum maps.
- Common district rubrics developed for evaluating research skills.
- Grade-level benchmark assessments implemented.
- Collaboration between classroom teachers and library/media specialists to support instruction.
- At least 80% of students demonstrate proficiency on district research and media literacy assessments.

Goal 4: Digital Citizenship

Goal:

By June 2029, the District will implement a comprehensive K–12 Digital Citizenship curriculum that fosters responsible, ethical, safe, and respectful participation in digital environments. Instruction will address online safety, cyberbullying prevention, digital footprints, media balance, privacy, intellectual property, digital wellness, and respectful online communication while reinforcing positive digital habits throughout students' educational experiences.

Success Indicators:

- K–12 Digital Citizenship curriculum developed and implemented.
- Grade-level lessons integrated into instructional calendars.
- Common assessments and reflection activities implemented.
- Annual review and revision of curriculum based on emerging digital trends.
- Curriculum supports the district goal of reducing cyberbullying referrals by 20%.

Students with Disabilities and Assistive Technology

Keyboard access may present a challenge for some students with disabilities. Such students may have assistive technology, instructional accommodations, and testing accommodations recommended on their individualized education programs (IEPs) or Section 504 accommodation plans (504 plans) to address their disability-related needs. For some students with disabilities, keyboarding may not be appropriate, even with the use of assistive technology tools. For these students, other assistive technology devices may be recommended, such as speech-to-text programs or eye-gaze technology for typing.

A student with a disability requiring keyboarding accommodations and/or assistive technology is given the opportunity to participate in general instructional technology activities, including keyboarding instruction, as appropriate to his or her individual needs. During such instruction the assistive technology and/or accommodations recommended for a student with a disability must be consistently implemented in accordance with the specifications on the student's IEP or 504 plan.

SWD will continue to participate in the least restrictive environment. With access to more technology and online curriculum, more opportunities for closing achievement gaps will be attainable. Teachers will identify student strengths and weaknesses and use this information in writing IEP goals as well as progress monitoring.

Student Achievement

The district will:

1. Utilize NYS testing data, NWEA MAP and MPG data, and other sources of formative assessment to inform instruction by identifying trends that highlight possible gaps in the curriculum.
2. Use web-based software to ease the transition to fully aligned curricula by providing students ample self-directed practice opportunities, doubling as powerful formative assessments for teachers.
3. Encourage the integration of devices and online resources into the curriculum, through professional development and the use of teacher leaders in the area of technology, to engender the growth of 21st century skills among our learners.

Technology Delivery

1. The Internet – via smart panels and direct student access on 1:1 devices -being used district-wide to enhance student learning and achievement. Instructional videos, interactive lessons, and online self-assessments are all examples of the types of instructional technologies that are being delivered to our students. Furthermore, the Internet has allowed students to collaborate and communicate more effectively as 21st century learners.
2. Interactive Panels have allowed teachers in the district to create more dynamic and engaging lessons for their classes, allowed for the use of recording software, and for teachers to investigate the flipped classroom model.
3. Google Workspace for Education –allows collaboration between student, teacher and parent as well as other educators from around the world. Additionally Google Workspace’s cloud based storage also allows individuals access to documents from anywhere there is an Internet Connection and offline access when they are not “connected.”
4. System Center Configuration Manager (SCCM) –allows for faster provisioning of new devices onto the network by creating a more automated approach to deploying software packages and maintaining Windows updates.
5. In development is Microsoft Intune-a service that focuses on device and application management both On Premise and Remote.

Parental Communications & Community Relations

1. The technology plan will be uploaded to our school website. A hard copy will also be available at a community member’s request.
2. The District offers a Parent & Student Portal through our student management system, eSchoolData. The portal allows access with a username and password so parents and students can see progress reports, report cards, assignments and attendance.
3. Parentsquare, a rapid calling system, is utilized to communicate with parents in an emergency situation or to relay information regarding school events. As well it allows the teachers and coaches two way communication with parents and students, without disclosing their personal contact information.
4. Frewsburg Central School District produces a community newsletter, spotlighting student achievements in academics and other extracurricular activities.
5. The District utilizes the website to highlight student achievements, upcoming events, district information and much more.

INFRASTRUCTURE, HARDWARE, TECHNICAL SUPPORT, AND SOFTWARE

Current Status

Frewsburg Central School District currently receives a 10 Gigabit broadband connection from WNYRIC, which terminates in the high school's main network closet. From there, connectivity is distributed across the district using Power over Ethernet (PoE) gigabit switches, with all wiring closets interconnected via multimode fiber. Each closet is supported by an uninterruptible power supply (UPS), allowing the network to remain operational during power interruptions until utility power is restored or the generator takes over.

Classrooms and offices are connected to the network through CAT 5e cabling, with some areas upgraded to CAT 6. Ethernet connections are available in both classrooms and network closets. Robert H. Jackson Elementary School is linked to the high school through a 10 Gigabit fiber connection, while the bus garage is connected via a 1 Gigabit fiber line and supplemented by wireless connectivity to the Bus Garage Storage building.

Each classroom is equipped with a wireless access point capable of supporting up to 50 simultaneous connections. Maintenance and management of the district's local area network (LAN) are provided through a contractual partnership with Erie I BOCES WNYRIC.

The district supports approximately 1,350 internet-connected devices. Its infrastructure includes 10 physical servers, three of which host 23 virtual machines. These systems support essential services such as file management, data storage, security cameras, cafeteria point-of-sale, transportation systems, wireless networking, and library automation.

The district utilizes a Voice over IP (VoIP) phone system, allowing all classrooms and offices to make both internal and external calls. Voicemail functionality enables staff to receive messages without disrupting instruction. The system also integrates with the internal paging system, making it possible to issue announcements and emergency notifications from any classroom or office. This enhances communication among staff, students, and families.

To help ensure equitable access, the district provides mobile hotspots for students who do not have reliable internet service at home.

Student Technology

All students in Frewsburg Central School District have access to a device to support instruction, including use of Google Classroom, digital resources, and collaborative tools.

At the Jr./Sr. High School, students in grades 7–12 are individually assigned touchscreen Windows devices for use both in school and at home. These devices allow students to continue working offline or connect to home Wi-Fi to access online resources. The building also includes a dedicated distance learning (DL) room and a Zoom Room cart which expands course offerings by connecting students with instructors in other districts, as well as supporting virtual field trips and collaborative opportunities.

The high school also features a STEAM lab equipped with high-capacity Windows computers and designed for future growth. In addition, a TV production studio with a green screen and appropriate equipment provides students with opportunities to engage in media production, including morning announcements.

At Robert H. Jackson Elementary School, all students have access to Windows-based laptops during the school day. Devices for students in grades K–4 remain in the classroom, with the ability to be sent home during periods of remote learning. Students in grades 5 and 6 are assigned take-home devices for both school and home use.

The elementary school includes a makerspace that is integrated into instruction for grades PK–2. The district continues to explore opportunities to expand makerspace experiences for students in grades 3–6, supporting creativity, problem-solving, and hands-on learning. Available to all classrooms is a Zoom Room cart which expands course offerings by connecting students with instructors in other districts, as well as supporting virtual field trips and collaborative opportunities.

Technology Support

Frewsburg Central School District employs a Director of Curriculum & Instruction who works closely with the Director of Technology & Communications to ensure that instructional goals are met and enhanced by the integration of technology. Additionally, the full time Director of Technology & Communications oversees the daily operation of the technology department and prioritizes the needs of the staff and students. The District also employs a full time Network Technician to help plan for and implement hardware upgrades, deployment of software, including operating system patches, and assist with security upgrades. The District also contracts with Erie 1 BOCES to have a senior systems administrator in District 25 days per year. Three days a week are contracted with Erie 2 BOCES for a Personal Computer Specialist to assist with tech support requests and to maintain the increasing number of computers and devices attached to their network. The District employs a Technology Integration Specialist to assist teachers with integrating technology into their curriculum. As well, they act as a liaison between the teachers and technology department to ensure seamless transition of updates and new initiatives.

The Frewsburg Jr/Sr High School has implemented a help desk located within the Distance Learning room and the AV Aide, who oversees the DL Room operations and is there to assist with front line troubleshooting of the student 1:1 device. The AV Aide assesses the situation initially and determines if the technology department needs to become involved with the repair of the device or if necessary, processes a loaner device to the student. At the elementary school, the Librarian is available to receive student devices with issues and check out loaner devices when required.

Security

The District has put in place many security measures to aid in the safety of our students and staff. All District employees are required to wear identification badges at all times. Both schools have controlled door access in that staff are given access for times specific to their roles. There is a robust IP based camera system in place internally and externally for all campus areas. The paging system is integrated with the Voice over IP phones so administration can utilize any area of the school to communicate announcements as needed to our staff and students.

Plan for Continuous Upgrading

The District has a plan to refresh the infrastructure components every 5 years or as needed, to upgrade staff & student devices every 4 years and to evaluate other classroom technology (interactive boards, projectors, document cameras, etc.) as necessary to ensure they are relevant and current. The administrative team has looked at all funding sources including local, eRate and Smart Schools Bond Act funds to create a fiscally sound financial plan.

Implementation/Work Plan-Goal 1 Sustain a secure, scalable, and future-ready technology infrastructure that ensures reliable access to high-quality digital content, instructional tools, and data systems for all students and staff			
07/01/2026 -- 06/30/2029			
Measurable Outcome	Month/Year	Steps	Stakeholders
Upgrade Classroom Wiring	July-August/2026 July-August/2027 2026-29 Ongoing evaluation of future wiring during capital project planning meetings	Installation of new wiring during HS Capital Project Plan with Erie 1 BOCES WAN team & Facilities Planning	Erie 1 BOCES WAN Director of Technology Director of Maintenance Administration
Wireless upgrade	June 2026 December 2027	Final Plans w/ Erie 1 BOCES WAN team Implementation	Erie 1 BOCES Network Technician Director of Technology
Plan to upgrade AC in RHJ WC#1&2	July-August/2028	Planning	Siemens and District Director of Maintenance Administration
ME4012/SAN Replacement	July 2027 July 2028	Planning Installation	Erie 1 BOCES Network Technician Director of Technology
VM Host1 Replacement	July 2028 July 2029	Planning Installation	Erie 1 BOCES Network Technician Director of Technology
HVAC Server Upgrade	July 2026	Implementation	Siemens and District
Upgrade WC to 10GB Internal	July 2026	Implementation	Network Technician Director of Technology Contractors
Student Device Upgrades	July 2026 July 2027 July 2028	4 Grades 3 Grades 4 Grades	Erie 1 BOCES Director of Technology Network Technician Administration

Staff & Teacher Device Upgrades	July 2027 July 2028	Staff/Teachers	Erie 1 BOCES Director of Technology Network Technician Administration
Outdoor Access Points at High School	July 2027 July 2028	Planning Implementation	Erie 1 BOCES Director of Technology Network Technician
STEAM Lab High School Upgrade-additional student workspaces	July 2026	Implementation	Administration Director of Maintenance Director of Technology Network Technician

Implementation/Work Plan-Goal 2 Leverage technology to strengthen communication, collaboration, and engagement with parents, families, and the broader community through accessible, timely, and effective digital platforms.			
07/01/2026 -- 06/30/2029			
Measurable Outcome	Month/Year	Steps	Stakeholders
Provide Zoom Room Carts for Distance Learning Opportunities	July 2026 September 2026 December 2026+	Complete installs of these devices Training Investigate opportunities for our classroom	Director of Technology Network Technician Technology Integrator Teachers Director of Curriculum
Evaluate Influencers	December 2026 Ongoing	Ongoing monitoring and response to feedback from community members	Superintendent Public Relation Professional
Monitor Online Threat forms	Continuous	Monitor through automated emails when threats are reported and react appropriately	Building Principals
Live Stream Events	July 2026	Continue Planning	Administration

	September 2027-29: as funding allows	for additional live stream options: Investigation, Testing and Acquisition Implementation/Main tenance of Hudl Cameras for Sporting Events	Athletic Director Director of Technology Erie 1 BOCES
Maintain Secure Parent Notification Platform	July 2026 September 2026	Finalize Implementation Investigate additional features for classroom involvement	Administration Director of Technology Classroom Teachers

Implementation/Work Plan-Goal 3 Utilize technology to enhance building safety and security systems, supporting a safe learning and working environment for students, staff, and visitors.			
07/01/2026 -- 06/30/2029			
Measurable Outcome	Month/Year	Steps	Stakeholders
Upgrade IP Camera Surveillance System			
DSS4/DSS5 Camera Server Replacements	July 2026	Installation	Erie 1 BOCES Network Technician Director of Technology
Improve Camera Coverage	Annual Evaluation	Planning Implementation Identify low coverage areas with	Administration
Replace cameras as needed-based on a 5-6 year cycle	July 2026 (25) July 2027 (20) July 2028 (27) July 2029 (23) July 2030 (22)	Budget for (and implementation of) replacements as specified in the replacement plan	Erie 1 BOCES Director of Technology Network Technician Administration
Upgrade VoIP System			
Investigate future proofing VoIP with a Cloud solution	July 2026 January 2027	Planning meetings Budget Planning	Erie 1 BOCES Director of Technology Erie 1 BOCES Director of Technology Administration
Upgrading VoIP system	July 2028	Implementation	Erie 1 BOCES Network Technician
Vape Detectors	December 2026	Continue planning and implementation	Administration
Enhance Internal/External Building Security	July 2027	Planning for Integrating Systems-entry, camera, etc	Administration Director of Technology Facilities Planning Maintenance

MONITORING AND EVALUATION

Evaluation

Annually, the district will evaluate the impact of our technology plan on students' performance by: reviewing the school report card data, graduation and drop-out rates, student attendance and discipline as well as student grades. The Chief Information Officer (CIO) and Data Management Specialist will be responsible for collecting and compiling this data. Student proficiency will be assessed through performance on state-wide tests, classroom tests and projects, and checklists. Support staff will be evaluated annually through the support staff evaluation.

The district Annual Professional Performance Review (APPR) plan is inclusive of district documents to record teacher performance and student learning. Data obtained through this process will be aggregated for district use in determining strengths and weaknesses of our staff and students' knowledge and skills. The key indicators of success are multi-faceted, but always focused on student achievement:

- Graduation Rate
- Advanced Regents Diplomas
- Regent's scores
- College Connection and credits earned
- SAT/ACT scores
- Project-based learning

Accountability for the technology plan will be assessed through individual performance evaluations as part of the APPR process. Teacher proficiency will be assessed through a myriad of strategies including teacher evaluation, formative, summative and informal walk-through and teacher portfolio. Through ongoing needs assessment, the district will collect information and analyze it to make decisions to ensure staff has the technology and resources necessary to implement New York State Learning Standards in all classes.

The needs of teachers and students are ever changing. Through the technology committee, administration, conversations with the CIO, Data Management Specialist, and department chairs, information will be brought forward so the individual needs of teachers and students can be addressed. The Director of Technology and Communications will meet with Administration and Technology Department members throughout the year to review the technology plan goals and work plan. They will look at the progress, discuss obstacles, and make revisions to the plan if necessary in response to concerns brought forward. This plan is a fluid document brought to life by the ever changing needs of the staff, to respond fully and thoroughly to the needs of our students, based on data.