2026-2029

Educational Technology Plan

Transforming Learning Through Technology

Preamble

The objectives of Technology in Webster Central School District is to provide
high quality educational technologies in all learning spaces throughout the district while
maintaining a safe and secure environment. Technologies will be widely and equitably used in
all Webster Central School District buildings to support the engagement of **ALL** students,
teachers, administrators, parents, and the community.

Educational technology applications will deepen student engagement and improve student
achievement by enabling them to access technology, solve problems, collaborate with others,
and communicate their thoughts and ideas. Educational technologies will allow students to
become self-directed, self-motivated and lifelong learners.

Acknowledgments

The Webster Central School District Educational Technology Plan represents a collaboration of many stakeholders' work. The work reflects thoughtful dialogue, research, mindfulness, evidence based practice and innovation. Gratitude is extended to dedicated faculty, support staff, administrators, students, and community members who participated in the Educational Technology Plan.

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Transforming Learning through Technology

Hardware/Infrastructure

Technology Asset Management

Core Belief Targeted: Fiscal Responsibility

Long Term Device Replacement Cycle

Students are worthy of our wise investment over a long range plan that meets the ever changing environments of technology.

Year	Three Year Rotation Plan for WCSD Technology
2025-2026	Student Devices
2026-2027	Non-instructional devices
2027-2028	Teacher, Nurses, and Admin Machines
2028-2029	Student Devices
2029-2030	Non-instructional devices
2030-2031	Teacher, Nurses, and Admin Machines
2031-2032	Student Devices
2032-2033	Non-instructional devices
2033-2034	Teacher, Nurses, and Admin Machines

Technology Asset Management
Core Belief Targeted: Fiscal Responsibility

Long Term Network and Infrastructure

Students are worthy of our wise investment over a long range plan that meets the ever changing environments of technology. In order to provide an optimized environment, we will need to conduct a review of our infrastructure and networking equipment every 9-10 years to explore a refresh of the equipment if needed at the ten year mark of the equipment.

Year	Network/Infrastructure
2017	Fiber installed from main building switch to all other switches in each building
2017	All Cisco switches replaced: 2960, 4500's
2017	All access points were upgraded to 802 AC wireless with upgradeable components
2017	Security Camera system additions and upgrades
2018	Outdoor wireless access points installed in all WCSD buildings
2021	Replace all WCSD switches and core infrastructure
2022	Replace Access points
2024	New Wireless controller/new firewall
2025	Update UPS infrastructure
2025	Replace security camera infrastructure
2025	Core Phone Updates
2026-2027	Review and implement new storage hardware
2028	Update of all network hardware
2034-2035	Review of infrastructure and hardware needs
2037	Update of all network hardware

The district currently standardizes network equipment using the Cisco line of hardware/infrastructure.

Hardware/Infrastructure Goals:

Goal 1: Utilize a 24/7 cybersecurity monitoring system

Targets/Activities:
- Solution to monitor all systems to maintain a 24/7-365 uptime
- Continue to exam tools that will support a healthy environment for long term success
- Utilize Arctic Wolf to implement and enhance the overall cybersecurity strategy for Webster CSD including
    - Additional redundancy for backups
    - Implementing Multi-Factor Authentication
    - Updating group policies
    - Professional learning for technology staff on enhanced cybersecurity practices

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Goal 2: Implement technologies and resources to maintain consistent coverage and emergency coverage throughout all district buildings.

Targets/Activities:
- Examine generator system abilities at all eleven school buildings
- Determine need for expansion of generators through all eleven school buildings
- Review Building Construction at Spry, Willink, Thomas, and Schroeder to replace outdated network cabling
- Review emergency response protocols to support enhanced coverage and community safety initiatives.

Safety and Security

Safety and Security

Core Belief Targeted: Accountability

National Institute of Standards and Technology (NIST):

NIST Reference Document

The NIST cybersecurity framework offers a flexible way to address cybersecurity, including cybersecurity's effect on physical, cyber, and people dimensions. It is applicable to organizations relying on technology, whether their cybersecurity focus is primarily on information technology (IT), industrial control systems (ICS), cyber-physical systems (CPS), or connected devices more generally, including the Internet of Things (IoT). The Framework can assist organizations in addressing cybersecurity as it affects the privacy of customers, employees, and other parties. Additionally, the Framework's outcomes serve as targets for workforce development and evolution activities. This framework is required by new York State starting on July 1, 2020.

Safety and Security Goals:

Goal 1: WCSD will enhance its cybersecurity posture by continuing a Zero Trust architecture framework, achieving 100% staff participation in monthly security awareness training, and reducing 'time-to-remediation' for critical vulnerabilities to under 48 hours to ensure the safety of student data and continuity of learning."

Targets/Activities:
- **Implement NIST 2.0 Cybersecurity Framework standards**
- Purchase, utilize, and monitor a Cybersecurity solution. Monitor network, security, and maintain regulatory compliance within this framework.
- Conduct penetration testing bi annually
- Implement multi factor authentication for all users for all programs with data
- Utilize online training platform on cybersecurity practices with staff
- Update cybersecurity training documents on a yearly basis for staff
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Goal 2: Develop and re-asses WCSD Technology Protocol Document and Guidelines

Targets/Activities:
- Provide consistent documentation for all WCSD technology practices
- All documents will be reviewed on a consistent basis to stay current with technology best practices and will align to the needs of the Webster Central School District

WCSD Instructional Pillars

Pillar 1: Universal Access & Inclusive Design

The Commitment: We move beyond the physical classroom by ensuring digital content is accessible to all learners through Universal Design for Learning (UDL) principles.

- ○ Actionable Elements:Deployment of text-to-speech tools for English Language Learners (ELL).
- ○ Implementation of screen readers and accessibility features for visually impaired students.

Pillar 2: Closing the "Digital Use" Divide

The Commitment: We reject the "remedial" use of technology. Every student, regardless of socioeconomic background, will use technology for creation, critical thinking, and analysis.

- ○ Actionable Elements: Shifting student work from passive consumption (videos/digital worksheets) to active production (coding, digital media, and collaborative problem-solving).

Pillar 3: Data as a "Force Multiplier"

The Commitment: Our District Data Team will empower educators with real-time insights to meet rigorous academic standards.

- ○ Actionable Elements: Using instructional technology to provide immediate feedback, identify learning gaps earlier, and allow teachers to spend more time on high-impact, personalized interventions.

Pillar 4: Sustained Professional Design

The Commitment: We recognize that technology is only as effective as the educator using it. We are moving away from "one-off" workshops in favor of sustained, job-embedded coaching.

- ○ Actionable Elements: Investing in instructional coaches who work directly in the classroom to help staff design and implement high-quality, tech-infused lessons.

Transforming Learning through Technology

Professional Learning
Core Belief(s) targeted: Continuous Improvement, Exploration and Innovation, Collaboration, Accountability

Goals:

Goal 1: Deliver on time professional learning opportunities to enhance use technology to enhance instruction for all students.

Targets/Activities:
- Ensure training opportunities regarding technology are aligned to district learning standards.
- Utilize staff to create targeted multimodal training that meet the needs of departments, grade levels, or curricular areas.
- Create a library of professional development resources to ensure staff can access materials either synchronously or asynchronously when the need arises.

Goal 2: The Strategic Planning Subcommittee on Artificial Intelligence (AI) will serve as a "think tank" to consider AI and its implications for our district, from as many perspectives as possible.

Targets/Activities:
- Develop and maintain a working Artificial Intelligence toolkit for the district.
- Create targeted professional development opportunities that will explore topics related to Artificial Intelligence.
- Create working groups to create a better understanding of how artificial intelligence will affect various stakeholder groups in our system(Staff, students and community).

Transforming Learning through Technology
Student Engagement and Digital Literacy

Continuous Improvement, Exploration and Innovation, Collaboration, Communication

Goal 1 - Learning: Integrate Resources and Lessons into the K-12 framework of the district to provide equitable learning opportunities for all students.
Targets/Activities:
- Integrate the key components of the NYS Computer Science and Digital Fluency standards into learning opportunities throughout the K-12 system.
- Continue the Encore program at the elementary schools and begin to bridge the skills learned at K-5 to expand lessons into the 6-8 grade levels.
- Work toward a cohesive and comprehensive integration of digital citizenship, computer science and digital literacy lessons/skills within the current district standards, SEL and MTSS work for all K-12 curriculum areas.
- Explore evolving technology areas and opportunities for students to engage in this exploration(Artificial Intelligence, E-sports, Game design, Cyber security, Augmented reality)
- Increase the collaboration between the district and local businesses, colleges and community agencies to provide skills and knowledge for students.

Goal 2: Enhanced community outreach

Targets/Activities:
- Involve PTSA, WHEN and other community organizations to develop programs that are timely, informative and meet the needs of our community.
- Continue to develop resources that the community can access: newsletters, website information, and community events.
- Include student voice in the Artificial Intelligence committee work.