
Pittsford Schools

TECH QUEST X

Index

<u>Acknowledgements</u>	pg. 3
<u>Executive Summary</u>	pg. 4
<u>District Core Beliefs</u>	pg. 5
<u>Technology Belief Statements</u>	pg. 6
<u>Technology Goals</u>	pg. 7
<u>Instructional Goals, Objectives and Action Plans</u>	pg. 8
<u>Systematic Improvement Goals, Objectives and Action Plans</u>	pg. 19
Appendixes	

Navigation Note: If you are viewing this document on a device, underlined items are quick links to allow for easy movement between sections.

Acknowledgements

Tech Quest X represents the work of committee members from many stakeholder groups. In numerous collaborative meetings, members of our District Technology Management Committee and our planning committee for Tech Quest X exchanged thoughts, shared research, and developed this document.

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Return to [Index](#)

Executive Summary

Tech Quest X is a three-year plan (2026-2029) for integrating current and emerging technologies into the instructional program. This revised volume supersedes volumes 1 through 9 dating back to 1994.

During the fall of 2025, the District Technology Management Committee began the process for creating Tech Quest X. The results of this work, along with other resources, were used to construct Tech Quest X. In addition to the District Technology Management Committee and the planning committee for Tech Quest X, the following stakeholder groups were consulted: Central Instruction Team, Standards Leaders, and building technology management committees.

The District Technology Management Committee, in consultation with other stakeholders, will assess progress toward the goals throughout the next three years.

Purpose

Tech Quest X provides leadership, management, and support systems that sustain the hardware and software necessary to enhance learning and instruction. In addition, this plan satisfies requirements outlined by Federal Government E-Rate funding. Tech Quest X addresses the critical components needed to integrate technology into all curricular areas:

- Articulate a vision for technology throughout the District
- Develop clear, measurable goals coupled with attainable objectives
- Identify technological strengths and weaknesses through a needs assessment
- Provide professional development in the use of technology for teaching and learning
- Offer student-centered approaches to learning
- Supply quality hardware, software applications, and telecommunications networks
- Provide technical and instructional assistance for maintaining and using technology resources
- Form community partnerships to access expertise, support, and real-life interactions
- Sustain financial support for technology use
- Create and sustain systems that provide real-time access to student data
- Develop guidelines to support learning environments

Return to [Index](#)

Core Beliefs

Pittsford Central School District Vision Statement:

Where we want our District to be:

Pittsford Central School District will be the leader in realizing the promise of public education. We will design a transformational partnership among students, families, professionals, and community, based upon a new definition of success for all:

Our students will navigate a journey of self-discovery, leading them to overcome obstacles, pursue balance and wellness, and personalize their education. They will recognize challenges as opportunities for learning and accomplishment. They will have the skills and competence necessary to understand and thrive in a diverse, global society. During and after their time with us, they will be independent, healthy, resilient, and compassionate contributors to our community and beyond.

Our staff will model the joy of learning. The environment of support and collegiality will make our district a magnet for passionate educators. Instead of categorizing students to fit into current structures, we will design systems to meet student needs.

Our families and community will be welcomed and engaged in educational experiences that dissolve the lines between business, society, and schools. Students will not only view adults as resources, but will themselves be recognized as resources to our community, matching their interests with opportunities to create solutions for real needs.

When this vision is realized, every Pittsford student will have access to personalized opportunities, and acquire skills necessary to meet their potential and fulfill their dreams.

Pittsford Central School District Mission Statement:

The Pittsford Central School District community works collaboratively to inspire and prepare our students to be their best, do their best, and make a difference in the lives of others.

Pittsford Central School District Core Values:

- Student Centered
- Supportive Environment for All
- Continuous Improvement
- Progressive
- Collaborative

Technology Vision Statement:

Pittsford Schools will promote the ethical and responsible use of technology to maximize the academic performance and personal development of all members of the learning community.

Technology Mission Statement:

Pittsford Schools successfully integrates technology into the educational program to provide students with the knowledge and skills required for lifelong learning and for productive participation in society.

Technology Belief Statements:

We believe:

- Thoughtful integration of technology promotes critical and creative thinking, innovation, and academic excellence.
- Our learning community must use existing technology while exploring and evaluating the use of emerging technologies to provide a rich and rigorous learning environment for all students.
- Technology-rich learning environments empower educators to engage, motivate, and meet the diverse needs of all learners.
- Students and staff can effectively collaborate with others to exchange ideas, develop new understandings, and create original works using a variety of technologies.
- By selecting and applying the appropriate digital tools to effectively access, evaluate and use information, students can communicate, solve authentic problems, and create new understandings.
- Our learning community must learn to use technology legally, ethically, and responsibly in our interconnected digital world.

Return to [Index](#)

Technology Goals

Instructional Goal

Facilitate and inspire student learning, creativity, and innovation.

Teachers use their knowledge of subject matter, teaching and learning, and technology to facilitate experiences that advance student learning, creativity, and innovation in both face-to-face and virtual environments.

Systematic Improvement Goal

Continuously improve organizational efficiency through planning for and management of technology resources.

Return to [Index](#)

Instructional Goal and Objectives

Instructional Goal:

Facilitate and inspire student learning and creativity.

Teachers use their knowledge of subject matter, teaching and learning, and technology to facilitate experiences that advance student learning, creativity, and innovation in both face-to-face and virtual environments.

Instructional Objectives:

- Empower staff and students to use technology—including artificial intelligence—responsibly, legally, and ethically, while developing critical thinking skills and protecting intellectual property and rights.
- Provide learner-centered resources that equip students with personalized access to technology and resources, ensuring their diverse needs are met and will empower them to thrive in a digital world.
- Integrate the NYS Computer Science & Digital Fluency standards into the K-12 curriculum, leveraging current and emerging technologies that maximize student engagement and achievement.
- Empower staff and students to communicate clearly and creatively using appropriate tools and formats, including artificial intelligence, while fostering positive, socially responsible contributions and empathetic online behavior that builds relationships and community.
- Leverage technology to design and implement diverse formative and summative assessments that meet learner needs, provide timely feedback, and inform instruction, while continuously staying informed about educational research and emerging trends in effective technology use.

Return to [Index](#)

Action Plans: Instructional Objectives

Objective 1:

Empower staff and students to use technology—including artificial intelligence—responsibly, and ethically, while developing critical thinking skills and protecting intellectual property and rights.

Action Steps

Timelines

- | | |
|--|-------------------|
| ✓ Model and promote responsible technology use by demonstrating ethical practices – including proper citation, respect for intellectual property, and appropriate digital conduct – and by guiding students to create original work and collaborate respectfully in online spaces. | 2026 -
Ongoing |
| ✓ Integrate digital citizenship and AI ethics by embedding the necessary knowledge and skills directly into the K-12 curriculum. | 2026 -
Ongoing |
| ✓ Design activities that require students to analyze, evaluate, and question AI-generated content while verifying sources and justifying decisions with evidence. | 2026-
Ongoing |
| ✓ Educate and set clear guidelines by sharing school policies on technology use and intellectual property. | 2026-
Ongoing |
| ✓ Foster real-world applications by having students use AI and technology to solve authentic problems while considering ethical impacts and reflecting on outcomes. | 2026-
Ongoing |
| ✓ Educate staff and students to protect privacy and rights by safeguarding personal data, understanding data-sharing risks, and reporting unsafe online behavior. | 2026-
Ongoing |
| ✓ Provide teachers with access to high-quality resources and ongoing professional learning focused on ethical and responsible technology use. | 2026-
Ongoing |

Indicators:

- Targeted professional development.
- Curriculum aligned with NYS CS & DF Standards.
- Embedded throughout district assessments.
- Technology use is in alignment with the district academic honesty policy and code of conduct.
- Students understand the AUP and adhere to its parameters.

Return to: [Instructional Objectives](#) [Index](#)

Action Plans: Instructional Objectives

Objective 2:

Provide learner-centered resources that equip students with personalized access to technology and resources, ensuring their diverse needs are met and empowering them to thrive in a digital world.

Action Steps

Timelines

- | | |
|---|----------------|
| ✓ Gather insights into individual learning styles, technology access, resource needs and student engagement through a variety of data collection methods. | 2027 - 2028 |
| ✓ Design lesson plans that integrate digital tools tailored to student needs, while incorporating assistive technologies to support learners with special requirements. | 2026 - Ongoing |
| ✓ Curate digital resources to maintain a robust library of options that keeps pace with technological advancements while also meeting the diverse educational needs of the classroom. | 2026- Ongoing |
| ✓ Partner with external resources (i.e. peers, businesses, higher education) on digital projects to foster innovation and creativity, while exploring new tools and sharing discoveries to enhance collective learning. | 2026- Ongoing |
| ✓ Provide teachers with access to high-quality resources and ongoing professional learning focused on the integration of technology. | 2026- Ongoing |

Indicators:

- Technology that allows for flexible use of space.
- Authentic learning opportunities that incorporate diverse learning styles.
- Lesson plans include documented integration of digital tools aligned with student needs.
- Teacher self-assessment confirming technology integration and diverse needs are met.
- See an increase in digital resources, where appropriate, in instruction and assessments.
- Completion of surveys, interviews, observational data to determine insight on learning styles, resource needs, and student engagement.
- Maintain a resource repository that is updated annually.

Action Plans: Instructional Objectives

Objective 3:

Integrate the NYS Computer Science & Digital Fluency standards into the K-12 curriculum, leveraging current and emerging technologies that maximize student engagement and achievement.

Action Steps

Timelines

- | | |
|--|--------------|
| ✓ Perform gap analysis between content standards and CS & DF standards. | 2026-2027 |
| ✓ Integrate skills identified in the gap analysis into appropriate curricular areas. | 2027-2028 |
| ✓ Provide targeted professional development on the CS & DF standards integration. | 2027-2029 |
| ✓ Evaluate CS & DF standards integration and adjust as needed. | 2028 – 2029 |
| ✓ Evaluate technology tools for alignment with CS & DF standards. | 2026-Ongoing |

Indicators:

- Completed gap analysis document(s) identifying alignment and discrepancies.
- Update curriculum maps showing the integration of CS & DF standards.
- Lesson plans include documented inclusion of the CS & DF standards.
- Professional development courses are provided on the integration of the CS & DF standards.
- Professional development courses are provided on the use of the various technology tools that support the CS & DF standards.
- Evaluation of the integration of the CS & DF standards is completed.
- Adjustments to the integration of the CS & DF standards are made based on the evaluation carried out.
- An audit of the technology tools is performed to check for CS & DF standards alignment.

Action Plans: Instructional Objectives

Objective 4:

Empower staff and students to communicate effectively and creatively using appropriate tools and formats, including artificial intelligence, while fostering positive, socially responsible contributions and empathetic online behavior that builds relationships and community.

Action Steps

	Timelines
✓ Demonstrate respectful, inclusive communication and share examples of contributions that build relationships and strengthen community.	2026 - Ongoing
✓ Foster effective communication skills by exploring clarity, tone, and creativity. This includes establishing the appropriate use of tools and formats for authentic purposes.	2026- Ongoing
✓ Design authentic collaborative experiences where students work together on real-world problems.	2026- Ongoing
✓ Introduce a variety of digital tools including, but not limited to, blogs, podcasts, infographics, and collaborative platforms to communicate effectively for different purposes.	2026- Ongoing
✓ Guide students in selecting the most appropriate format – such as formal reports, creative media, or interactive presentations – based on their audience and communication objectives.	2026- Ongoing
✓ Design assignments that combine text, visuals, and audio to help students communicate ideas in diverse and engaging ways.	2026- Ongoing
✓ Guide students in developing digital etiquette across platforms, illustrating how tone and style must adapt when using email, discussion boards, social media, or collaborative apps.	2026- Ongoing

Indicators:

- Use of respectful, inclusive language in all online interactions.
- Students demonstrate clarity and appropriate tone in written and multimedia assignments.
- Students select tools/formats aligned with their communications goals/audience
- Students use a variety of tools across projects.
- A technology integration checklist is created to show exposure to multiple platforms.
- Students justify their choice of tool/format in project proposals.

- Projects allow for multimodal expression.
- Students demonstrate appropriate tone and style in online communication.

Return to: [Instructional Objectives](#) [Index](#)

Action Plans: Instructional Objectives

Objective 5:

Leverage technology to design and implement diverse formative and summative assessments that meet learner needs, provide timely feedback, and inform instruction, while continuously staying informed about educational research and emerging trends in effective technology use.

Action Steps

	Timelines
✓ Incorporate digital formative and summative assessment tools including techniques that acknowledge growing access to artificial intelligence.	2026 - Ongoing
✓ Develop digital assessments in multiple formats (quizzes, projects, portfolios, etc.) to accommodate varied learner needs.	2026- Ongoing
✓ Offer options for students to demonstrate learning through text, audio, video, or interactive media.	2026- Ongoing
✓ Utilize tools with automated feedback features to provide timely and meaningful feedback.	2026- Ongoing
✓ Stay current with research and trends by participating in webinars, professional learning communities and conferences focused on technology integration and assessment innovation.	2026- Ongoing
✓ Ensure data privacy and ethical use by educating students about the responsible use of assessment tools and digital platforms.	2026- Ongoing

Indicators:

- A variety of digital tools/platforms are used for assessments.
- Assessments are provided in multiple formats to accommodate varied learner needs.
- New tools or pedagogical strategies are shared on a regular basis with staff/students.
- Professional development is provided for new tools adopted by the district.
- Monitor assessment logs to ensure students are not misusing digital platforms during assessments.

Return to: [Instructional Objectives](#) [Index](#)

Systematic Improvement Goal and Objectives

Systematic Improvement Goal:

Continuously improve organizational efficiency through planning for and management of technology resources.

Systematic Improvement Objectives:

- Ensure all technology equipment is current, reliable, and meets user needs.
- Safeguard personally identifiable information (PII) and enhance cybersecurity using NIST standards.
- Optimize the structure and effectiveness of Building Technology Management Committees.

Return to [Index](#)

Action Plans: Systemic Improvement Objectives

Objective 1:

Ensure all technology equipment is current, reliable, and meets user needs.

Action Steps

- | | |
|--|--------------|
| ✓ Annually evaluate and inventory all devices to determine whether to replace, repurpose, eliminate, or maintain them. | 2026-Ongoing |
| ✓ Establish and regularly review the optimal refresh rate for infrastructure, user devices, and peripherals based on current and emerging technologies | 2026-Ongoing |
| ✓ Implement and monitor the refresh cycle for all technology assets. | 2026-Ongoing |

Timelines

Indicators:

- Yearly inventory of equipment and updated district records of hardware inventory.
- Documented refresh schedules for infrastructure, devices, and peripherals.
- Evidence of completed annual evaluations and actions taken.

Action Plans: Systemic Improvement Objectives

Objective 2:

Safeguard personally identifiable information (PII) and enhance cybersecurity using NIST standards.

Action Steps

✓ Inventory all data and maintain contracts with vendors; establish robust controls.	2026-Ongoing
✓ Conduct quarterly vulnerability scans and annual audits using third-party vulnerability scanning tools.	2026-Ongoing
✓ Maintain endpoint protection with EDR and multifactor authentication for critical systems.	2026-2028
✓ Encrypt sensitive files and segment networks for data and productivity systems.	2026-2027
✓ Maintain updated anomaly detection and SIEM monitoring tools in partnership with third-party providers.	2026-Ongoing
✓ Educate stakeholders on cybersecurity best practices through mandatory training and presentations.	2026-Ongoing
✓ Regularly review and update policies, procedures, and disaster recovery plans.	2026-Ongoing

Timeline

Indicators:

- Maintained data inventory and audit reports.
- Completion rates for multifactor authentication and endpoint protection.
- Number of security incidents detected and resolved.
- Frequency of stakeholder training sessions and participation rates.
- Updated and approved disaster recovery, backup, and incident response plans.

Return to: [Systematic Objectives](#) [Index](#)

Action Plans: Systemic Improvement Objectives

Objective 3:

Optimize the structure and effectiveness of Building Technology Management Committees.

Action Steps

✓ Review and update the Technology Chair job description in collaboration with Human Resources.	2026-2027
✓ Define the purpose and scope of technology management at the building level.	2026-2027
✓ Develop building-wide goals, success indicators, and timelines aligned with Tech Quest 10.	2026-2028
✓ Critique and improve the evaluation process for building technology management.	2026-Ongoing

Timelines

Indicators:

- Documented changes to job descriptions and committee charters.
- Established building-level goals and indicators of success.
- Shared agendas and minutes with all stakeholders.
- Evidence of ongoing evaluation and improvement of committee effectiveness.

Return to: [Systematic Objectives](#) [Index](#)