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Seekonk Public Schools

District Digital Learning and Technology Plan 2022 - 2026

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Technology Department

Introduction

Mission

The mission of Seekonk Public Schools is to provide a quality education through shared responsibility in a safe, supportive environment for all students to become responsible citizens and meet the challenges of a global community.

Vision

The vision of the Seekonk Schools is to assure that all students develop the skills, habits and attitudes that promote life-long learning, creative problem-solving, and ethical decision-making.

Core Values

Respect, Responsibility, Collaboration, Growth

Theory of Action

WHEN we prioritize the individual needs of our students, establish high expectations for academic achievement, social and emotional development, and civic engagement in a safe and supportive environment, and *WHEN* we prepare teachers through professional learning opportunities to meet the needs of our diverse learners, *THEN* we will create an environment where students can take ownership of their learning, feel empowered to take risks, collaborate with peers and teachers, and make connections to real issues and challenges, thus preparing them to be resilient and successful in our community and the world.

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Teaching and Learning

Goal	**The Seekonk Public Schools will be a digitally safe environment of connected 21st century engaged learners. Teachers and students will know how to use technology to enhance outcomes.**
2022-2023	With 2,050 students now working 1:1 in grades PreK-12 on over 2,000 mobile devices, Seekonk is well-positioned to support new levels of engagement and provide access to technology tools that allow students to create, design, and explore. Teachers in all schools are designing lessons using web-based tools that foster collaboration, critical thinking and problem-solving. These tools are supporting students as they experience more rigorous learning design.
Objective:	• Teachers will design, create and share technology rich lessons with their co-workers through staff meetings, common planning time, teacher-led technology workshops, and out-of-district conferences. • Develop a program for technical education at the high school to develop into a CTE program

Action Steps	**2022-2023**	**2023-2024**	**2024-2025**	**2025-2026**
1. Promote global connections and communication in the classroom through the use of social media.	X	X	X	X
2. Design lessons that enable all students to meet grade-level Technology Literacy Standards.	X	X	X	X
3. Provide collaborative opportunities for staff and students to share ideas and creations.	X	X	X	X
4. Provide on-going technology literacy training for teachers and students.	X	X	X	X
5. Facilitate teacher-led workshops for peer-to-peer learning to enhance and empower our teachers as doers.	X	X	X	X
6. Provide on-going daily in-school support and professional development to all Seekonk educators and staff members.	X	X	X	X
5. Create a robust Technical Education program at Seekonk High School to support the development of a certified Career and Technical Education (CTE) Program for our students.	X	X	X	X
6. Coordinate STEM alignment, so that the areas of Science,Technology, Engineering and Mathematics are strongly and clearly integrated into instruction and student learning.	X	X	X	X

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Assessment and Data Management

Goal	**The Seekonk Public Schools will collect and effectively manage student data from multiple sources in order to inform and improve instruction and to maximize student outcomes.**
2022-2023	Seekonk Public School teachers are using a wide range of digital tools to assess student academic performance as well as to reflect on their own practice. Additionally, administrators are employing technology tools to assess program effectiveness, to evaluate teacher performance, and to reflect on school and district needs. Data sources such as DESE's Data Warehouse, Linkit, IXL, Edgenuity, Seesaw, Catchon, Newsela, etc.
Objective	• Data provided from surveys will demonstrate competency growth integrating technology into the classroom. • Teacher Leaders and Administration will be able to accurately use and assess data management systems.

Action Steps	**2022-2023**	**2023-2024**	**2024-2025**	**2025-2026**
1. Implement and utilize a data warehouse tool, Linkit, to assist in the garnering of information about student performance to be able to analyze, assess, evaluate each student.	X	X	X	X
2. Provide support to the Student Support Teams (SSTs) in the use of technology to collect, evaluate, and analyze data to improve decision-making and student outcomes.	X	X	X	X
3. Execute and analyze the results of a bi-annual survey of staff to measure technology comfort levels, use of technology, skill acquisition, and program effectiveness. https://bit.ly/35ITDPB	X	X	X	X
4. Support Seekonk's District Strategy for Student Success by providing technical expertise and training to teachers and administrators in the effective utilization of a web-based data management platform that consolidates multiple sources of student data into a central, single-sign-on location.	X	X	X	X
5. Administrators and teachers will be able to utilize a digital tool for evaluation purposes.	X	X	X	X
6. Develop Data Teams at each level. These teams will use analytics to support instruction.		X	X	X

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Professional Development

Goal	**The Seekonk Public Schools will provide staff with ongoing professional development in the use and integration of technology to improve instruction and student learning outcomes.**
2022-2023	Seekonk Public Schools is committed to providing teachers with the necessary training and consistent support required to successfully implement technology into instructional practice and student learning activities. Our Director of Technology & Digital Learning, Library Media Specialists, Elementary Technology Teachers, administrators, teachers, and outside providers will provide these training sessions.
Objective	• Increase teacher and administration competency with technology use. Teachers and administrators will be able to teach another teacher/administrator using multiple technology sources. • All new teachers will be prepared to use, integrate and access all technology systems necessary in daily teaching practice. • Develop a student run Help Desk at the high and middle schools. Students will become Google Level One certified.

Action Steps	**2022-2023**	**2023-2024**	**2024-2025**	**2025-2026**
1. Provide effective technology training and support for all staff on how to integrate technology seamlessly across all content areas.	X	X	X	X
2. Develop and continually update instructional modules in Google Classroom/Seekonk PD Google Site so that all staff members have access to tutorials on how to use the latest technologies available to improve instruction and student learning.	X	X	X	X
3. On an annual basis, provide a technology orientation to newly hired staff members: Rediker, SPS email system, Google Apps for Education, website development, policies/practices as they relate to the use of technology.	X	X	X	X
4. Provide teachers with training on how to integrate digital citizenship and cybersafety curriculum into their instructional practice and student learning activities.	X	X	X	X
5. Provide professional development to Seekonk staff members on how to merge curriculum and technology (i.e. Boot Camp, EdCamp, Online training, face to face, Book Studies, Self-paced PD, courses etc).	X	X	X	X
6. Plan and facilitate Technology Open Houses and Parent Technology Workshops. Develop incentives to increase/promote parent participation.	X	X	X	X
7. Grow and maintain the Student Help Desk to become a high school level course. Students who staff the Help Desk will provide teachers and other students with help in resolving technical issues as well as provide training and tutorials on technology tools.		X	X	X
8. Model the seamless integration of Universal Design practices with assistive technology in order to promote student success in an individualized learning environment.	X	X	X	X
9. Create Google Certified Educator/Administrator Cohort for each school in order for staff to gain additional skills and support each other.		X	X	X
10. Provide professional development for data warehouse tool, Linkit, to ensure proper implementation and use.	X	X	X	X

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And Infrastructure, Cybersecurity and Access

Goal	**The Seekonk Public Schools will provide and maintain an infrastructure that provides equity of access to technology as well as efficiency in the use of technology for all staff members and students so that learning can take place anytime/anywhere.**
2022-2023	Seekonk Public Schools currently provides all teachers and students with the tools needed to make technology an ubiquitous part of learning. Students in grades kindergarten through twelve have 1:1 access to mobile devices. Wireless access points have been installed strategically, and all devices are managed and monitored remotely. The broadband access was increased to 2GB to support the increase in technology.
Objective	• Internet access will be available to all schools and will have a 95% connectivity rate. • Bandwidth access increased significantly to support increased use of technology.

Action Steps	**2022-2023**	**2023-2024**	**2024-2025**	**2025-2026**
1. Instill robust use of Internet and cloud-based applications while decreasing reliance on licensed/installed software.	X	X	X	X
2. Provide portable amplification systems in every classroom.	X	X	X	X
3. Provide state-of-the-art hardware and applications to enhance instruction, learning, and data management.	X	X	X	X
4. Utilize a monitoring/filtering solution to ensure a safe online learning environment for our students.	X	X	X	X
5. Create and maintain a 1:1 environment for grades Kindergarten - Grade 12.	X	X	X	X
6. Provide high-speed Internet in school. Provide information about Internet options to families to increase equitable access outside the school building.	X	X	X	X
7. Redesign and modernize the School Libraries to create a 21st century learning space.	X	X	X	
8. Assess and upgrade wireless and fixed network access on an annual basis to ensure bandwidth demands are met.	X	X	X	X
9. Evaluate annually the life expectancy of all wireless and fixed devices.	X	X	X	X
10. Evaluate our current Student Information System to see if it is able to meet all of our needs and if not investigate and purchase an alternative		X	X	X
11. Provide infrastructure refresh: wireless, network, firewall and domain controller upgrade along with the addition of a video surveillance server.	X	X	X	X
12.Ongoing steps to assist in protecting against cyber attacks. (Insurance, 2FA, Secure Network, training, backup servers, etc)	X	X	X	X
12. Upgrade Access Points (APs) as they come end-of-life as well as move to a cloud controller to improve effectiveness of the APs.	65	61	21	48
13. Purchase Chromebooks for students entering grade six as part of our 1:1 program as well as for Chromebooks reaching end of life.	1035	85	465	

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14. Ensure teachers have the proper teaching tools with new laptops as devices reach end-of-life as well as for any new staff joining Seekonk.	70	20	20	20
15. Outfit middle and high school classrooms with interactive panels or up-to-date projectors.	10	10	25	25

Support and Organization

Goal	**The Seekonk Public Schools will maintain a well-staffed Technology Department to ensure the technology needs of all staff members and students are met.**
2022-2023	The SPS Technology Department currently comprises a Director of Technology and Digital Learning, two Computer Technicians and a Data Specialist. This team supports and manages a network of over 2,500 devices. Library Media Specialists at each school and two Elementary Technology Teachers provide technical support to staff, while modeling sound instructional technology practices, as well as designing professional development for administrators, teachers, paraprofessionals, substitutes, students, and parents. Information from the Technology Department is disseminated via e-mail, website, Twitter, Instagram, and face-to-face events.
Objective	• Communication to administration, teachers, parents and community members will increase in regards to technology use and vision in the schools. • Add two Digital Learning Coaches, one for the elementary schools and one for middle and high school

Action Steps	**2022-2023**	**2023-2024**	**2024-2025**	**2025-2026**
1. Disseminate the latest technology information and resources to students, staff and families through district websites, social media, e-newsletters, face-to-face events, e-mails and other digital media.	X	X	X	X
2. Provide district data management and academic applications that are web-based or cloud services. Facilitate robust use of Google Docs and Apps for academic settings to allow for the scaling down on the use of licensed/installed software.	X	X	X	X
3. Employ two Digital Learning Coaches to support seamless technology integration			X	X
4. Collaborate with the library media specialist at each school to enhance the seamless integration of technology into teaching and learning.	X	X	X	X
7. Develop and maintain a robust District Technology Advisory Group to elicit input from stakeholders in our community. Made up of administrators, teachers, and students. Our District Technology Advisory Group will meet regularly to set goals, review practices, explore new technology opportunities, and make recommendations for improving technology-enhanced teaching and learning in the Seekonk Public Schools.	X	X	X	X
8. Annually review/update the SPS District Technology Plan. Provide evidence of goals met/progress attained.	X	X	X	X

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Summary

The Seekonk Public Schools use technology resources strategically to create a safe and collaborative learning environment that prepares students for life in an ever-changing digital world. Technology is a seamlessly integrated tool that enhances the efficiency of our daily work, improves instructional practices, allows for timely collection and analysis of data, and enriches student learning experiences. Staff and student access to this technology relies upon a dynamic and well-maintained network and wireless infrastructure.

Equipped with a thorough understanding of the web-based tools and web applications available to them, with experience using state-of-the-art devices, and with the prerequisite skills for the effective use thereof, our students are able to apply and demonstrate 21st century skills in their learning and in their lives. Our students are well-prepared to be responsible digital citizens.

We are grateful to the Seekonk community for their ongoing support of our digital environment for teaching and learning. Through the collaborative efforts of our community, our School Committee, our leadership team, our teachers, our students, and our families, Seekonk is a leader in the use of educational technology.

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ISTE Technology Literacy and Technology Readiness

Standards for Educators: https://www.iste.org/standards/iste-standards-for-teachers

Standards for Leaders: https://www.iste.org/standards/iste-standards-for-education-leaders

Instructional/Technology Area	Current	2016-2020 Goal
Empowered Learner: *Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals.*	Through the use of Google Tools including Google Classroom, teachers and students are learning the power of digital collaboration.	Teachers will create online learning communities where students can use digital tools to reflect on and bring transparency to their metacognitive processes.
Knowledge Curator: *Students make meaning for themselves and others by critically curating resources through the use of digital tools.*	Teachers and students are exploring digital tools to become better researchers while making data, learning and knowledge more meaningful.	Using a variety of tools and strategies, Teachers and students will research, review and evaluate information to derive meaning from their findings and demonstrate understanding of an issue, field or problem.
Innovative Designer: *Students use a variety of technologies within a design process to solve problems by creating new, useful and/or imaginative solutions.*	Through STEM and Makerspace programs, students and teachers are more regularly exposed to the design process and learning the perseverance required to work through problems.	Teachers will guide students through the design process as they formulate ideas and plan to solve problems, innovate designs and create new concept, processes or products using digital tools.
Computational Thinker: *Students identify authentic problems, work with data and employ algorithmic thinking to propose or automate solutions.*	Authentic problems are being explored in courses at all levels and are more often included in many areas of the curriculum.	Teachers and students will identify authentic problems and explore strategies to address them as they collect, analyze and represent data and make conclusions. Using logical reasoning, students will understand how systems work and will identify crucial information needed to solve problems.
Creator and Communicator: *Students communicate clearly and express themselves creatively for a variety of purposes using the tools, styles, formats and digital media appropriate to their goals.*	Through the use of Google Tools and other similar digital assets, teachers are giving students more opportunities to demonstrate understanding in a variety of ways.	Students will evaluate and publish media in a variety of formats to clearly express ideas and demonstrate understanding to an audience beyond their teacher.
Global Collaborator: *Students use digital tools to broaden their perspectives, increase empathy and understanding and work effectively in teams.*	Students and teachers collaborate locally through the use of Google Tools and are learning to use other digital tools to collaborate globally within online environments.	Students and teachers will become local and global collaborators to develop varied perspectives and build cultural understanding while assuming various roles and responsibilities in order to work effectively toward a common goal.
Digital Citizen: *Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act in ways that are safe, legal, ethical and self-aware.*	Teachers are modeling responsible and ethical use to make students more aware of the persistence of their own activity in the digital world.	Students and teachers model and practice safe, legal, ethical and responsible use of technology in the digital world in order to foster a positive digital identity and reputation. They understand the social, legal and ethical impact computing and technology has on our lives.

Massachusetts Standards for Digital Literacy and Computer Science:

https://www.doe.mass.edu/stem/dlcs/?section=planningtools

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