

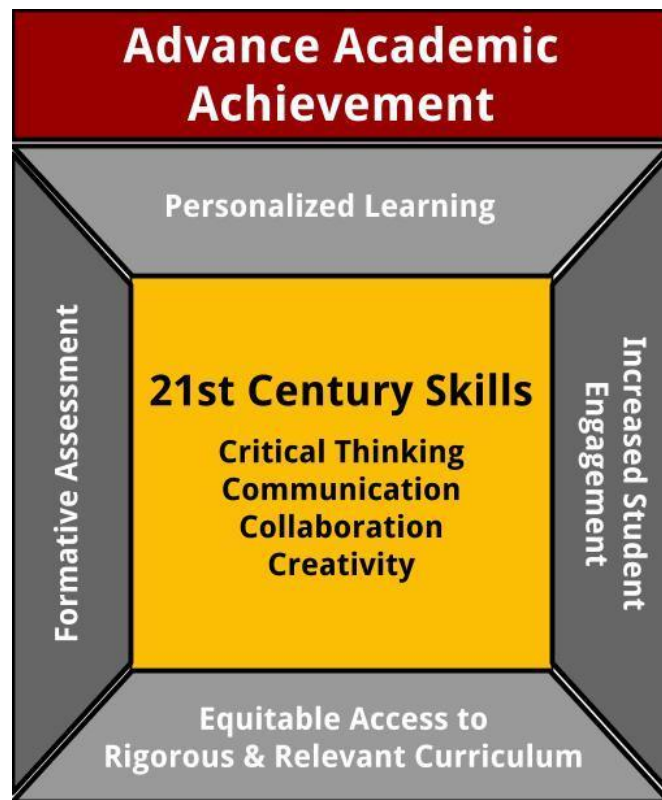
# North Kingstown School Department Five-Year Technology Strategic Plan 2022-2026

## Preface

This five-year technology strategic plan has been shaped by the North Kingstown District Technology Committee which consists of district administrators, technology staff, tech lead teachers, webmasters, library media specialists, school staff, and teachers. It builds upon previous technology strategic plans (2014-2018) and (2018-2022).

## Vision

**Advance academic achievement and 21<sup>st</sup> century skills by purposefully aligning pedagogy with the use of technology in order to graduate responsible digital citizens.**



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**Goals**

1. **Execute the vision and plan with excellence:** Implement the vision and roadmap effectively and efficiently, ensuring technology infrastructure, staffing, and support are reliable and available for all constituents.
  - 1.1. **Create an implementation plan:** Design a detailed roadmap charting the journey toward these goals, with annual targets and a plan for ongoing monitoring and assessment.
  - 1.2. **Ensure sustainable IT funding:** Develop a goal-aligned, long-term financial plan ensuring sustainable funding with little or no reliance on grants or PTO funding for necessary technology infrastructure, program management, and support.
  - 1.3. **Harmonize technology procurement:** Implement technology procurement policies, procedures, and practices which are inclusive of all key constituencies and ensure there is compatibility and effective and efficient use of resources, with particular attention paid to ensuring purchases are cost effective, can be sustainably supported, and provide maximum return on investment.
  - 1.4. **Promote clear and consistent expectations for teaching and learning:** Determine and deliver developmentally-appropriate, technology-enhanced teaching and learning across the district, with clearly articulated baseline expectations which create consistent but not uniform educational experiences for all students. Encourage students to exhibit grit and resilience by applying previously learned digital skills to new platforms.
  - 1.5. **Implement clear and consistent cybersecurity procedures:** Ensure that all students, teachers, and staff adhere to required cybersecurity policies, procedures, and practices.
  - 1.6. **Involve students:** Leverage student interest, enthusiasm, and expertise in the support of educational and technical programs, including the involvement of students in policy-making, educational program planning, and user-support.
  
2. **Support a continuously improving learning environment:** Implement a process for identifying, approving, acquiring, and implementing new technologies to support student learning and educator effectiveness and efficiency.
  - 2.1. **Refresh devices for teachers and students:** Strengthen technology-enriched teaching and learning by ensuring every teacher and student has a high quality mobile device for planning and executing effective lessons.
  - 2.2. **Enhance professional proficiencies:** Build educator capacity with differentiated, consistent and sustainable professional development, supported and reinforced with in-house resources and enhanced internal capacity. Strong consideration should be given to allocating resources as priority to the use of in-house trainers and the use of “Educator-to-Educator” models of professional learning. Annually employ an inclusive process of determining professional learning goals and a program of professional learning.
  - 2.3. **Strengthen student learning with technology-enabled, data-driven best practices:** Utilize best practices and appropriate technology tools in formative assessment and data driven instructional practice to improve individual learning progress for all students.
  - 2.4. **Establish effective learning management systems:** Provide educators and students comprehensive and user-friendly learning platforms and management systems for classroom procedures (such as submitting assignments) and classroom communications (such as calendars, assignments, and expectations).

- 2.5. **Continue to provide reliable network and Internet access:** Ensure speedy and reliable access to the Internet to all educators and students; because the Internet “offers vast, diverse and unique resources,” Internet access must be consistent, fast, and filtered appropriately such that educational resources are widely, equitably, and easily available.

**3. Provide instruction, curriculum and assessment that is aligned to the following ISTE (International Society for Technology in Education) Standards:**

**3.1 The ISTE Standards for Students**

- 3.1.1 **Empowered Learner** – Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences
- 3.1.2 **Digital Citizen** – Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical
- 3.1.3 **Knowledge Constructor** – Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.
- 3.1.4 **Innovative Designer** - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.
- 3.1.5 **Computational Thinker** - Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions
- 3.1.6 **Creative Communicator** - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.
- 3.1.7 **Global Collaborator** - Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

**3.2 The ISTE Standards for Educators**

- 3.2.1 **Learner** - Educators continually improve their practice by learning from and with others and exploring proven and promising practices that leverage technology to improve student learning.
- 3.2.2 **Leader** - Educators seek out opportunities for leadership to support student empowerment and success and to improve teaching and learning.
- 3.2.3 **Citizen** - Educators inspire students to positively contribute to and responsibly participate in the digital world.
- 3.2.4 **Collaborator** - Educators dedicate time to collaborate with both colleagues and students to improve practice, discover and share resources and ideas, and solve problems.
- 3.2.5 **Designer** - Educators design authentic, learner-driven activities and environments that recognize and accommodate learner variability.
- 3.2.6 **Facilitator** - Educators facilitate learning with technology to support student achievement of the ISTE Standards for Students.
- 3.2.7 **Analyst** - Educators understand and use data to drive their instruction and support students in achieving their learning goals.

**2022-2026 Management and Planning Summary**

Key Tactical Issues, Task List, Budgetary Estimates, and Time Table

Key Tactical Issues	22-23	23-24	24-25	25-26	Budgetary Considerations /Sources
<b>Marketing and Communications</b>					
Continue to communicate regularly to all constituents about the strategic plan and progress toward stated goals.	X	X	X	X	No Cost
<b>Professional Development</b>					
Plan and implement a comprehensive professional development program aligned with curriculum, instruction, and assessment.	X	X	X	X	Funded by Curriculum Office PD budget
Employ a Second Technology Instructional Coach.		X	X	X	1.0 FTE
Continue to identify faculty members to fill leadership and mentoring roles. (i.e. Tech Lead Teachers, Webmasters, LMS Coordinator)	X	X	X	X	Title II stipends for faculty mentoring.
Provide professional development focused on data analysis to design and implement assessments that accommodate learner needs, provide timely feedback to students, and inform instruction.	X	X	X	X	Funded by Curriculum Office PD budget/Title II
<b>Curriculum Integration</b>					
Ensure that digital classroom assignments and assessments incorporate the skills and strategies required by State Assessments.	X	X	X	X	No Cost
Identify, select, promote, and support use of technologies for formative assessment that provides individualized data, timely feedback, and continuous measurement of student learning.	X	X	X	X	No Cost
On a grade level, departmental and/or faculty-wide basis, engage in conversations and share best practices.	X	X	X	X	No Cost
Provide opportunities for blended and personalized learning in which students have some choice in the time, place, path and/or pace of learning.	X	X	X	X	No Cost
Promote safe and responsible use of technology by embedding the components of Digital Citizenship into daily instruction.	X	X	X	X	No Cost
Prepare students, teachers, and staff to teach and learn using a variety of methods and/or locations. (in person, distance learning, synchronous/asynchronous)	X	X	X	X	Funded by Curriculum Office PD budget/Title II

Key Tactical Issues	22-23	23-24	24-25	25-26	Budgetary Considerations /Sources
<b>IT End User Devices</b>					
Provide mobile devices to all teachers and appropriate staff and provide professional development as needed.	X	X	X	X	Estimated \$800 per teaching staff member
Provide mobile devices to students.	X	X	X	X	Estimated \$250 per device
Refresh all classrooms with interactive technology and laptop-compatible monitors for the teaching station/desk.	X	X	X	X	Estimated \$4,000-\$5,000 per classroom
<b>IT Infrastructure</b>					
Prepare and execute plans to upgrade network switches and access points on an ongoing basis.		X	X	X	Ongoing expense of upgrades/Fund Balance and Technology Budget
Provide mobile WiFi hotspots to students without home internet access.	X	X	X	X	\$5,000 for 25 hotspots
Continue to migrate services to cloud and server virtualization.	X	X	X	X	Should be cost-neutral or bring savings.
<b>IT End User Support</b>					
Develop a Student Help Desk Program and, potentially, a for-credit curriculum and course.		X	X	X	.2 FTE possible consolidation with a second technology coach
If low enrollment prevents a student help desk program from running, continue to utilize student interns from various CTE programs.	X	X	X	X	No Cost

**Annual Review**

NKSD Technology Strategic Plan will be reviewed and updated on an annual basis by the NKSD Technology Committee and NKSD School Committee. Any fiscally relevant updates in the plan will be incorporated into the Superintendent's Annual Budget Proposal.

**NKSD Technology Five-Year Strategic Plan**  
**Projection for Fund Balance/Capital Expenditures to Address**  
**(beyond NKSD current operational technology budget)**

**Year 1 (FY23): (Funding Commitment: approximately \$325,000-\$375,000 from Fund Balance(excluding Chromebooks refresh))**

1. Refresh 20% (approximately 60 classrooms) with new Classroom Technology - Interactive Board & laptop compatible monitor (“docking station” built in) (\$250-300k)
2. Refresh Room NKHS 216 Lab & Redeploy to MS Robotics Labs - 30 desktops (35k)
3. Refresh 30 Office computers (spread across the district) & Redeploy to one MS Robotics Lab (40K)

**Year 2 (FY24): (Funding Commitment: approximately \$390,000-\$440,000 from Fund Balance (excluding Chromebooks refresh))**

1. Refresh 20% (approximately 60 classrooms) with new Classroom Technology - Interactive Board & laptop compatible monitor (“docking station” built in) (\$250-300k)
2. Refresh 30 Office computers (spread across the district) & Redeploy to one MS “Keyboard Lab” (40k)
3. Refresh of NKHS Photo Lab (60k)
4. Refresh of NKHS Robotics/Engineering Lab Computers (40k)

**Year 3 (FY25): (Funding Commitment: approximately \$450,000-\$500,000 from Fund Balance (excluding Chromebooks refresh))**

1. Refresh 20% (approximately 60 classrooms) with new Classroom Technology - Interactive Board & laptop compatible monitor (“docking station” built in) (\$250-300k)
2. Refresh Room NKHS 218 Lab & Redeploy to other MS “Keyboarding” Lab (40k)
3. Refresh 4 Virtual Servers (120k) - May be able to extend from this date
4. Refresh of Admin Mobile Devices (40k)

**Year 4 (FY26): (Funding Commitment: approximately \$750,000-\$800,000 from Fund Balance (excluding Chromebooks refresh))**

1. Refresh 20% (approximately 60 classrooms) with new Classroom Technology - Interactive Board & laptop compatible monitor (“docking station” built in) (\$250-300k)
2. WIFI & Upgrade Switches (500k) eRate Category 2 funding may lower this amount

**Year 5 (FY27): (Funding Commitment: approximately \$385,000-\$435,000 from Fund Balance(excluding Chromebooks refresh))**

1. Refresh 20% (approximately 60 classrooms) with new Classroom Technology - Interactive Board & laptop compatible monitor (“docking station” built in) (\$250-300k)
2. Refresh of CTE Laptop Carts (100k)
3. Refresh of NKHS Communications Lab (35k)

### Laptop/Chromebook Replacement Plan

	<b>SY 22/23</b>	<b>SY 23/24</b>	<b>SY 24/25</b>	<b>SY 25/26</b>	<b>SY 26/27</b>	<b>SY 27/28</b>
	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>
<b>K</b>	1	2	3	<b>NEW</b>	1	2
<b>Gr. 1</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>
<b>Gr. 2</b>	1	1	1	1	1	1
<b>Gr. 3</b>	2	2	2	2	2	2
<b>Gr. 4</b>	2	3	3	3	3	3
<b>Gr. 5</b>	1	3	4	4	4	4
<b>Gr. 6</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>
<b>Gr. 7</b>	2	1	1	1	1	1
<b>Gr. 8</b>	2	3	2	2	2	2
<b>Gr. 9</b>	1	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>
<b>Gr. 10</b>	2	2	1	1	1	1
<b>Gr. 11</b>	2	3	3	2	2	2
<b>Gr. 12</b>	2	3	4	4	3	3
<b>HS Staff</b>	1	2	3	4	<b>NEW</b>	1
<b>MS Staff</b>	1	2	3	4	<b>NEW</b>	1
<b>ES Staff</b>	1	2	3	4	5	<b>NEW</b>
<b>TAs</b>	<b>Rolling</b>	<b>Rolling</b>	<b>Rolling</b>	<b>Rolling</b>	<b>Rolling</b>	<b>Rolling</b>

**Classroom Interactive Board Adoption/Refresh Plan**

	<b>SY 22/23</b>	<b>SY 23/24</b>	<b>SY 24/25</b>	<b>SY 25/26</b>	<b>SY 26/27</b>
	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>
<b>NKHS</b>	19	19	18	18	18
<b>WMS</b>	7	7	7	7	6
<b>DMS</b>	9	9	8	8	8
<b>DA</b>	1	1	1	2	2
<b>FC</b>	5	5	6	6	6
<b>FP</b>	4	4	4	4	4
<b>QE</b>	4	4	5	4	5
<b>SL</b>	5	5	6	5	5
<b>HE</b>	6	6	5	5	5
<b>Total</b>	60	60	60	59	59