



JOURNEY 2025

NNPS Technology Plan

Newport News Public Schools



The Newport News Public School division educates more than 28,500 children in 42 schools: 5 early childhood centers, 24 elementary schools, 7 middle schools, 5 high schools, and 1 middle/high combination school. NNPS employs over 4,600 dedicated staff. Each day in Newport News Public Schools the focus is on one mission: ensuring that all students graduate College, Career and Citizen Ready.

Technology Department Mission

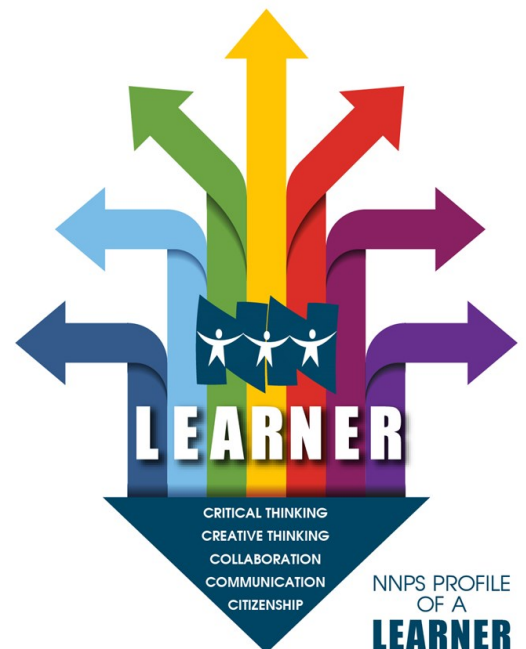
The Newport News Public Schools (NNPS) Technology Department provides innovative technology-based solutions and services to the staff, students, families, and communities served by NNPS. Leveraging state-of-the-art infrastructure and educational technologies that are as diverse as our community of learners, the Technology Department ensures global access to information and online resources.

Guiding Principles

- Technology, when combined with solid pedagogy, professional development, and a rigorous curriculum, has tremendous potential to enrich and transform student learning.
- All students deserve equitable access to digital resources.
- Technology is a means to an end, not the final destination.
- Personalized and purposeful professional development will build capacity for the effective use of technology.

Purpose

The 2020-2025 NNPS Technology Plan is an actionable, five-year plan that establishes the framework necessary to support the authentic use of technology to positively impact teaching, learning, and student achievement. The goals, actions, and measures outlined in this plan are aligned with the NNPS Strategic Plan and Profile of a Learner.





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Focus Area: Technology Hardware			
Goals or Actions	Activities & Supports	Measures	Alignment
100% of NNPS students will have access to a grade-level appropriate computing device that is available for use both on and off-campus	<p>The Digital Transformation committee will establish appropriate computing devices for each grade level</p> <p>The Digital Transformation committee will develop guidelines for off-campus computer use based on grade level</p>	Published student-to-computer ratio documentation that includes device type and off-campus use guidelines by grade level	Student Success Stewardship of Resources Digital Transformation
Maintain presentation technology and multimedia tools in each classroom that are appropriate for the content area and grade level	<p>Replace aging SMART Boards in Pre-K through 2nd-grade classrooms with an interactive flat-panel solution</p> <p>Develop a sustainable replacement strategy and schedule for aging SMART Boards in grades 3 through 12</p>	<p>Projector and interactive whiteboard inventory</p> <p>Five-year classroom technology hardware refresh plan documentation</p>	Student Success Stewardship of Resources
Establish a sustainable long-term computer refresh schedule for staff and student devices	<p>Establish practices and procedures to reduce the incidence of loss, theft, and damage to staff and student computers</p> <p>Review potential funding and revenue sources to offset the cost of computer repair and replacement</p> <p>Review of suitable device options by Digital Transformation committee</p> <p>Explore options for regional technology purchasing consortium</p>	<p>Incidence of loss, theft, and damage to staff and student computers</p> <p>Five-year computer refresh plan documentation</p> <p>Five-year Technology Department budget roadmap documentation</p>	Stewardship of Resources



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Focus Area: Connectivity

Goals or Actions	Activities & Supports	Measures	Alignment
100% of NNPS students will have reliable off-campus access to the Internet	CoNNected @Home Program - Wi-Fi Hotspots - Partnerships with ISPs Develop or expand at least one strategic relationship around Internet access at home for students	Student & family survey data Hotspot distribution statistics Number of referrals to low-cost Internet programs	Student Success Enhanced Partnerships Digital Transformation
Maintain a secure and robust technology infrastructure to support access, adequacy, and equity	Upgrade the NNPS wireless network in accordance with the 2020-2025 NNPS Technology Systems Refresh Schedule Upgrade NNPS core network elements in both Network Operations Centers (NOCs) Upgrade all Layer 2 network switches	Completed network upgrades Updated network equipment inventories Updated network diagrams	Stewardship of Resources

Focus Area: Personalized Professional Learning

Goals or Actions	Activities & Supports	Measures	Alignment
Promote current and emerging technology-based resources that support educators in developing and employing innovative strategies and practices	Expansion of Personalized Learning Opportunities with Technology (PLOT) course Professional learning opportunities aligned to the Canvas Skills continuum Develop or expand at least one in-house professional learning course for teachers centered around blended learning Create and fill additional FTE positions for Instructional Technology Coaches (ITCs)	100% of teachers achieve mastery of Level 1 Canvas skills by September 2020 50% of teachers achieve mastery of Level 2 Canvas skills by December 2021 Completion of professional learning sessions documented in Frontline Ratio of ITC to schools	Employee Expertise Stewardship of Resources Digital Transformation
Increase the number and quality of relevant professional learning opportunities available to Technology Support Specialists (TSSs)	Develop a formal professional learning course for Technology Support Staff utilizing the Canvas LMS	Completion of professional learning sessions documented in Frontline	Employee Expertise Stewardship of Resources



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Focus Area: Online Resources

Goals or Actions	Activities & Supports	Measures	Alignment
Support blended learning by standardizing on a single system for learning management that ensures teachers, students, and families can communicate, collaborate, and easily access learning materials	Implement a robust, full-featured Learning Management System (LMS)	100% adoption of Canvas LMS for the Fall 2020 semester	Student Success Stewardship of Resources Enhanced Partnerships Digital Transformation
Promote and expand the use of Open Educational Resources (OER) at NNPS	Partner with Curriculum & Development, where appropriate, to incorporate OER in the curriculum	OER platform usage data	Stewardship of Resources Digital Transformation
Provide a single, comprehensive resource site for educators that includes vetted and pre-approved educational technology apps and websites intended for general and content-specific use	Expansion of the Elementary and Secondary Digital Toolbox websites	BrightBytes Learning Outcomes data Website analytics from Digital Toolbox websites	Stewardship of Resources Digital Transformation

Focus Area: Data-Informed Decision Making

Goals or Actions	Activities & Supports	Measures	Alignment
Establish a lens through which NNPS can evaluate decision-making processes to ensure equitable practices in all areas of planning related to supporting the individual needs of ALL students	Create a Vulnerability Index within Synergy Analytics	Vulnerability Index accessible in Synergy Analytics	Student Success Stewardship of Resources
Use data from existing and newly-acquired systems and sources to monitor, analyze, and improve the performance and efficiency of Technology Operations	Develop a dashboard to measure key performance indicators related to: <ul style="list-style-type: none"> The Technology Help Desk Network Utilization Systems Availability 	Mean resolution time for work orders SLA Compliance Average age of technology hardware Mean repair time for staff and student computers Data usage on student Wi-Fi hotspots	Stewardship of Resources



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Focus Area: Safety and Security

Goals or Actions	Activities & Supports	Measures	Alignment
Provide safe and secure online learning environment for students and staff	<ul style="list-style-type: none"> Upgrade network firewalls Upgrade web content filtering system Gaggle student safety system GoGuardian student safety systems 	<ul style="list-style-type: none"> Completed network firewall upgrades Completed web content filtering system upgrade Data from Gaggle student safety system Data from GoGuardian student safety systems 	Student & Staff Wellness
Leverage technology to enhance safety and security in our physical learning environments	<ul style="list-style-type: none"> Fully implement Raptor Emergency Management System Complete all fire and intrusion system upgrades as outlined in the 2020-2025 NNPS Technology Systems Refresh Schedule Complete all clock/bell and public address system upgrades as outlined in the 2020-2025 NNPS Technology Systems Refresh Schedule Complete all security camera system installations and upgrades as outlined in the 2020-2025 NNPS Technology Systems Refresh Schedule 	<ul style="list-style-type: none"> Data from Raptor Emergency Management System Technology Systems Refresh Documentation 	Student & Staff Wellness