

Norwich City School District

District Technology Plan 2018 - 2021

Submitted by District Technology Committee: June 1, 2018

Board Approved: June 20, 2018

Table of Contents

District LEA Information	5
Strategic Technology Planning	5
District Mission	5
District Vision for Technology	5
Technology Plan Goal #1	5
Technology Plan Goal #2	5
Technology Plan Goal #3	6
Technology Plan Goal #4	6
Technology Plan Goal #5	6
Planning Process	6
Board of Education	6
Administration	6
Student Body Representation	6
Committee Membership	7
Professional Development Plan	7
Purpose	7
Professional Development Opportunities	7
Professional Development Alignment	8
Instructional practice and use of technology in the classroom	8
Delivery of Professional Development	8
Measurement and Evaluation	8
Action Plan	10
Technology Plan Goal #1	10
NYSED Goal Alignment	10

Target Population	10
Action Steps	10
Technology Plan Goal #2	13
NYSED Goal Alignment	13
Target Population	13
Action Steps	13
Technology Plan Goal #3	18
NYSED Goal Alignment	18
Target Population	18
Action Steps	18
Technology Plan Goal #4	22
NYSED Goal Alignment	22
Target Population	22
Action Steps	22
Technology Plan Goal #5	24
NYSED Goal Alignment	24
Target Population	24
Action Steps	24
NYSED Initiatives Alignment	26
Use of Instructional Technology for Student Improvement	26
Differentiated Instruction Using Technology for Students with Disabilities	26
Equitable Instructional and Assistive Technology for Students with Disabilities	26
Professional Development Plan for Teachers Serving Students with Disabilities	26
Use of Technology with ELL/ML Students	27
Technology Plan Addressing of ELL/ML Students	27
Professional Development Plan for Teachers Serving ELL/ML Students	27

Use of Technology for Culturally Responsive Learning Environments	28
Administrative Management Plan	29
Staff Plan	29
Investment Plan	29
School Technology is Provided for Use in Non-public Schools in District	30
Public Website	30
Assigned Person with Responsibility for Information Security	30
Assigned Person with Responsibility for Information Privacy	30
District-wide Information and/or Privacy Audit has been Performed	30
District Currently has a Digital Citizenship Plan for Students	30
District Currently has a Cyberbullying Awareness and Response Plan	30
District Currently has an Internet Safety Policy	30
District Currently has a Cyberbullying Policy	30
District Currently has a Parents' Bill of Rights	30
District Currently has an Information Breach Policy	30
Website Link to District Technology Plan	30

Norwich City School District Technology Plan

District LEA Information

Steve Andrus, Norwich CSD Director of Managed Technology Services

Strategic Technology Planning

District Mission

Through the use of all available resources, it shall be the Mission of the Norwich City School District to produce productive citizens who can successfully collaborate and compete in a global society... to develop and provide for each enrolled student a program of experiences, activities and services designed to ensure maximum opportunities for lifelong intellectual, psycho-social, personal and physical growth. It shall further be the Mission of the District to ensure the delivery of such experiences, activities, and services within an interpersonal atmosphere marked by order, warmth and genuine concern for each individual's well-being as well as appropriate physical environments which support and contribute positively to learning.

District Vision for Technology

The vision for Technology at Norwich City School District is to provide the tools, training, and support necessary to create a district wide culture in which all students, staff, and administration successfully develop and use critical thinking, collaboration, internet literacy, innovation, and technological fluency skills in their work and learning environments.

Technology Plan Goal #1

A Student Empowered Learning Environment will be established in all classrooms. PreK-Grade 5 will have opportunities to explore curriculum-connected technology that will develop their abilities to problem solve and think critically in the classroom to become engaged, independent learners.

Technology Plan Goal #2

A Student Empowered Learning Environment will be established in all Middle and High School classrooms. All students will have opportunities to explore curriculum-connected technology that will develop their abilities to problem solve and think critically in the classroom to become engaged, independent learners.

Technology Plan Goal #3

To provide teacher centered opportunity to explore and plan the integration of technology as a tool to advance achievement through promoting student engagement, media rich learning, multiple literacies, and project-based learning.

Technology Plan Goal #4

Teachers will have timely access to data to inform instruction and monitor progress. Students will develop 21st century skills that will be assessed across grade levels and content areas. Students will also use online tools to take assessments in order for teachers to utilize technology for measurement of content standards.

Technology Plan Goal #5

Digital Citizenship will be incorporated in a way which helps students, and all technology users within the district, understand appropriate technology usage and to prepare them for a society full of technology.

Planning Process

The District Technology Committee began regular meetings in January 2018 to develop a shared vision and goals to support technology district wide at Norwich City School District. The committee surveyed staff, administration, community, and student stakeholders for input on the plan as it was developed.

Members of the District Technology Committee function as ambassadors for the District Technology Plan, providing information about the plan and receiving feedback regarding the plan. The District Technology Committee will meet a minimum of three times a school year to monitor and update the plan as needed.

Board of Education

- John Klockowski, President
- Jennifer Collins, Vice President
- Don Chirlin
- Roz DeRensis
- Bob Smith
- Joe Stagliano
- Howie Sullivan

Administration

- Gerard O'Sullivan, Superintendent
- Robert Wightman, Deputy Superintendent
- Kathleen Hansen, Assistant Superintendent of Instruction

Student Body Representation

- High School and Middle School Student Review Panels

Committee Membership

- Joseph Cirigliano, Perry Browne Intermediate School, Reading Teacher
- Kisten Giglio, Norwich High School, Principal
- Christopher Klatt, Norwich High School, Technology Teacher
- Frances Nial, Stanford Gibson Primary School, Elementary Teacher
- Jennifer Oliver, Stanford Gibson Primary School, Administrative Intern
- Paul Sims, Norwich Middle School, Mathematics Teacher
- Jeffrey Smith, SCRIC, Managed IT Project Coordinator
- Maureen Smith, Broome Tioga BOCES, Instructional Technology Coach
- Stephen Andrus, SCRIC, Norwich CSD Dir of Managed Technology Services

Professional Development Plan

Purpose

The purpose of the NCS D Professional Development Plan is to improve the quality of teaching and learning. It is to ensure that teachers, teaching assistants and long-term substitutes participate in substantial professional development in order to remain current with their profession and to meet the learning needs of our students.

The professional development plan for technology will align with the Smart Schools Investment Plan (SSIP-filing summer 2018) and will also act as a subset document to the district Professional Development Plan for Teaching and Learning.

Professional Development Opportunities

Professional development will be provided to all administrators, teachers, and Level III certified teaching assistants for a minimum of 100 hours every five years. Each administrator, teacher and certified teaching assistant will receive minimally 20 hours per year. Professional development will be available based on our needs analysis completed at LINKS and will be directly aligned to New York State regulations and the Common Core Learning Standards. Professional development opportunities will be provided through the following:

- Mandated trainings
- Superintendent's conference days
- Mentor/intern program
- Faculty meetings
- Collaborative meetings
- Department meetings
- Curriculum development work
- Workshops/conferences held outside the district
- Graduate credit hours (1 credit = 15 hours PD)
- District/building committees
- Administrative council

Professional Development Alignment

The Norwich City School District LINKS plans are aligned with the New York State Common Core Learning Standards and assessments to meet student needs. The plans outline initiatives to focus efforts in the following areas:

- Literacy and linguistic strategy implementation
- Core subject curriculum implementation
- Cultural diversity and character education
- Strategies for working with students with special needs
- Building teacher capacities to implement effective instructional strategies
- Developing and implementing protocols for teacher collaboration

Instructional practice and use of technology in the classroom

Focus areas for professional development K-12 include Common Core module development, literacy initiatives, instructional strategies as found in Teach Like a Champion, character education including Olweus and data driven dialogue measuring student achievement. Annual transition meetings will be held to align curriculum and provide continuity as student's transition between buildings and grade levels. Protocols will continue to be developed to enhance communication concerning transitions.

Delivery of Professional Development

Professional development is continuously driven and sustained by the LINKS plan and the APPR process. Methods and approaches include an increasing balance of collaborative teacher centered work with information resulting from meetings and workshops. It is delivered by BOCES staff developers, outside consultants, building principals and lead teachers. Teachers are supported in classrooms and given feedback related to the indicators on the NYSUT rubric, Teach Like a Champion strategies and student data results.

BrightBytes Survey Results (students and staff) will aid in the selection, design and workshop implementation process.

Measurement and Evaluation

Students and faculty in 3 buildings (intermediate, middle school and high school) will complete the BrightBytes Survey to inform professional development decisions. The survey results will also be used by the Technology Committee to explore further opportunities and learning needs of our students. The program will allow the district to create action plans based on the information that was compiled. The survey was administered in May and results will be retrieved by June 1, 2018.

The survey will be given annually and serve as a baseline to help evaluate technology trends and goal progress. Additional documentation will be gathered from each school based on technology use in the classroom.

Goal Measurement and KPIs

Key Performance Indicators	2017-18 Baseline	2018-19 Target
Teachers ask students to collaborate online with teachers	8%	25%
Teachers ask students to receive feedback from others in the classroom (at least weekly)	0%	20%
Teachers ask students to write online (at least weekly)	0%	30%
Teacher time spent per year participating in school-sponsored PD (>17 hours/year)	18%	40%
Teachers discuss technology use during department or grade-level meetings (more than half the time)	33%	50%
Teachers feel rewarded for integrating technology into teaching (more than half the time)	24%	50%
Teachers administer digital or online assessments to a majority of their students	32%	50%
Time spent per year teaching about prevention of cyberbullying (> 3 hours/year)	13%	50%

Action Plan

Technology Plan Goal #1

A Student Empowered Learning Environment will be established in all classrooms. PreK-Grade 5 will have opportunities to explore curriculum-connected technology that will develop their abilities to problem solve and think critically in the classroom to become engaged, independent learners.

NYSED Goal Alignment

Develop a strategic vision and goals to support student achievement and engagement through seamless integration of technology into teaching and learning.

Target Population

PreK-2 and Grades 3-5.

Action Steps

Action Step	Action Description	Action Category	Responsible Stakeholder	Anticipated Month of Completion	Anticipated Year of Completion	Anticipated Cost
1. Students understand the fundamental concepts of technology operations, demonstrate the ability to choose, use and troubleshoot current technologies and are able to transfer their knowledge to explore emerging technologies.	Students will use technology to demonstrate their learning in a variety of ways.	Curriculum	Classroom Teachers	June	2021	

2. Students plan and employ effective research strategies to locate information and other resources for their intellectual or creative pursuits.	Provide necessary technology so that students have access to resources and a variety of tools to create opportunities for meaningful learning.	Curriculum	Classroom Teacher	June	2021	
3. Purchase and distribute devices.	Purchase 1:1 in school devices for grade 5. Purchase additional iPads for carts in grades PK-2 and Google Expedition sets. Replace 1:1 class Smartboards with large format displays and video/audio streaming devices.	Purchasing	Director of Technology	August	2018	\$223,270
4. Redistribute devices.	Redistribute 5 carts in district to grade 6 SS (1), grades 3-4 teachers (3), and grade 2 (1) to prepare students for grade 3 technology use. Move 1 cart to Library.	Implementing	Director of Technology	September	2018	\$0
5. Purchase and distribute devices.	Purchase 1:1 in school devices for grades 3-4. Replace 1:1 class Smartboards with large format displays	Purchasing	Director of Technology	August	2019	\$176,375

	and video/audio streaming devices. Replace half of teacher devices to match student use.					
6. Purchase and distribute devices.	Replace unsupported 1:1 devices for grades 2-5. Replace half of teacher devices to match student use.	Purchasing	Director of Technology	August	2020	\$197,100
7. Continue to evaluate and pilot new and emerging technologies.	Create protocols for requesting and providing a plan for implementing emerging instructional technologies for use in PK-5.	Policy/ Protocols	Director of Technology	June	2021	\$75,000
8. Infrastructure Evaluation and Improvements	Continual review and monitoring of infrastructure to support instructional technology use in PK-5. Includes infrastructure hardware and wiring.	Infrastructure	Director of Technology	June	2021	\$266,250

Technology Plan Goal #2

A Student Empowered Learning Environment will be established in all Middle and High School classrooms. All students will have opportunities to explore curriculum-connected technology that will develop their abilities to problem solve and think critically in the classroom to become engaged, independent learners.

NYSED Goal Alignment

Develop a strategic vision and goals to support student achievement and engagement through seamless integration of technology into teaching and learning.

Target Population

Grades 6-12.

Action Steps

Action Step	Action Description	Action Category	Responsible Stakeholder	Anticipated Month of Completion	Anticipated Year of Completion	Anticipated Cost
1. Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.	<p>Students use technology to seek feedback that informs and improves their practice and to demonstrate their learning in a variety of ways.</p> <p>Students understand the fundamental concepts of technology operations, demonstrate the ability to choose, use and troubleshoot current technologies and are able to transfer their knowledge to explore emerging technologies.</p>	Implementation	Building Administrators	June	2019	

	Students plan and employ effective research strategies to locate information and other resources for their intellectual or creative pursuits.					
2. 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.	Students plan and employ effective research strategies to locate information and other resources for their intellectual or creative pursuits. Students evaluate the accuracy, perspective, credibility and relevance of information, media, data or other resources. Students curate information from digital resources using a variety of tools and methods to create collections of artifacts that demonstrate meaningful connections or conclusions.	Implementation	Building Administrators	June	2020	
3. Students develop and employ strategies for	Students break problems into component parts, extract key information, and	Collaboration	Building Administrators	June	2021	

<p>understanding and solving problems, communicating clearly and expressing themselves creatively in ways that leverage the power of technological methods through the use of a variety of platforms, tools, styles, formats and digital media by collaborating with others.</p>	<p>develop descriptive models to understand complex systems or facilitate problem-solving.</p> <p>Students choose the appropriate platforms and tools for meeting the desired objectives of their creation or communication.</p> <p>Students communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models or simulations.</p> <p>Students publish or present content that customizes the message and medium for their intended audiences.</p> <p>Students explore local and global issues and use collaborative technologies to work with others to investigate solutions.</p> <p>Students contribute constructively to project teams, assuming various roles and responsibilities to</p>					
--	---	--	--	--	--	--

	work effectively toward a common goal.					
4. Purchase, distribute, and redistribute devices	<p>Purchase 1:1 take home devices for grades 11-12 and Library.</p> <p>Purchase 1:1 in school devices for grades 7-8 and Library.</p> <p>Replace 1:1 class Smartboards with large format displays and video/audio streaming devices.</p> <p>Redistribute 5 carts in district to grade 6 SS (1), grades 3-4 teachers (3), and grade 2 (1) to prepare students for grade 3 technology use.</p>	Purchasing	Director of Technology	August	2018	\$223,270
5. Purchase, distribute, and redistribute devices	<p>Purchase 1:1 take home devices for grades 9-10 and additional for Library.</p> <p>Purchase 1:1 in school devices for grade 6.</p> <p>Replace 1:1 class Smartboards with large format displays and video/audio streaming devices.</p>	Purchasing	Director of Technology	August	2019	\$176,375

	Replace half of teacher devices to match student use.					
6. Purchase and distribute devices	Replace half of teacher devices to match student use.	Purchasing	Director of Technology	August	2020	\$197,100
7. Continue to evaluate and pilot new and emerging technologies.	Create protocols for requesting and providing a plan for implementing emerging instructional technologies for use in PK-5.	Policy/ Protocols	Director of Technology	June	2021	\$75,000
8. Infrastructure Evaluation and Improvements	Continual review and monitoring of infrastructure to support instructional technology use. Includes infrastructure hardware and wiring.	Infrastructure	Director of Technology	June	2021	\$266,250

Technology Plan Goal #3

To provide teacher centered opportunity to explore and plan the integration of technology as a tool to advance achievement through promoting student engagement, media rich learning, multiple literacies, and project-based learning.

NYSED Goal Alignment

Provide access to relevant and rigorous professional development to ensure educators and leaders are proficient in the integration of learning technologies.

Target Population

All students.

Action Steps

Action Step	Action Description	Action Category	Responsible Stakeholder	Anticipated Month of Completion	Anticipated Year of Completion	Anticipated Cost
1. Review and align professional development initiatives with staff and student needs	Survey taken of the staff to determine where they need professional development. Professional development planned and implemented for the District.	Curriculum	Assistant Superintendent	June	2018	\$3,960 (\$132/day for 30 teachers) (LINKS)
2. The K-12 curriculum will be analyzed to identify areas where technology can be integrated in a meaningful way for all students to experience.	Teachers will use collaboration time to discuss meaningful ways to use technology in grade level teams and or content areas. Teachers will report or summarize how the use technology and this will be shared district wide. Teachers communicate with administration for	Curriculum	Assistant Superintendent	August	2019	\$3,960 (\$132/day for 30 teachers) (LINKS) Extra hour PD or Department meetings.

	professional development opportunities.					
3. Instruction on the ISTE standards will be introduced to all teachers.	Teachers will be given documents or links of the ISTE standards to review. They will also then be presented with further information on the standards and how they link to classroom practices.	Professional Development	Instructional Technology Specialist	October	2018	\$0 Faculty meeting or dept. Time for PD. Copies of the standards provided to teachers and staff.
4. Provide ongoing Professional Development to all instructional personnel, including teachers, media specialists, principals and Para-professionals.	Professional Development offered: - 1:1 Best Practices including SAMR model - Digital Citizenship - what is it and how/when to teach - Schoology - Google apps for Education - Flipped Classroom - Digital Formative Assessment - Coding/Robotics - eDoctrina	Professional Development	Instructional Technology Specialist	June	2021	\$3,960 (\$132/day for 30 teachers) Sub coverage for teachers to be out of District.
5. Opportunities will be provided for outside professional development in areas of technology.	Specific workshops and trainings that involve technology and how to integrate into specific content areas. For example, coding and robotics in the ELA classroom; Math stations for the elementary classroom. When teachers attend these opportunities they	Professional Development	Assistant Superintendent	June	2021	\$3,960 (\$132/day for 30 teachers) Sub coverage for teachers to be out of District. Faculty meeting time for teachers to share out or turn key

	will return to the district and share out their learning.					information they learn.
6. Provide opportunity to plan and integrate new skills and tools into lessons.	Teachers will need time to digest all of the materials/skills they learn in PD and time to practice. Teachers will be encouraged and supported to learn and work with other teachers and/or the instructional technology specialist.	Planning	Building Principals	June	2021	\$0 Use of extra hour PD, Dept. time and faculty meeting times. Sub coverage to allow 1:1 or group coaching with the Instructional Technology Specialist.
7. Continued exploration of makered, using technology to enhance choice and opportunity within a constructivist classroom	The committee will continue to explore additional tools and skills that would benefit the teachers and students in the District.	Planning	Technology Committee	June	2021	\$0 Sub coverage for teachers to continue to meet as a committee. Sub coverage and conference fees for teachers to participate in outside opportunities to learn about new technology.
8. Building technology teams should be technology Leaders to	Building technology teams will receive training and then act as coaches in technology in the district.	Professional Development	Director of Technology	June	2019	\$0 Sub coverage to allow building technology team

turnkey technology trainings	Staff will also be given time to meet with the tech. Team members to learn the tools and how to use them.				<p>coaching with the Instructional Technology Specialist.</p> <p>Sub coverage for teachers to be out of their classrooms or out of the District allowing them to meet with other teachers, the tech leaders or view exemplar classrooms.</p>
------------------------------	---	--	--	--	--

Technology Plan Goal #4

Teachers will have timely access to data to inform instruction and monitor progress. Students will develop 21st century skills that will be assessed across grade levels and content areas. Students will also use online tools to take assessments in order for teachers to utilize technology for measurement of content standards.

NYSED Goal Alignment

Provide technology-enhanced, culturally and linguistically responsive learning environments to support improved teaching and learning.

Target Population

All students.

Action Steps

Action Step	Action Description	Action Category	Responsible Stakeholder	Anticipated Month of Completion	Anticipated Year of Completion	Anticipated Cost
1. All teachers and administration will utilize a District-Wide Learning Management System (ie. Schoology) within their content area.		Implementation	Building Principals	June	2021	\$3884/ annually
2. Survey professional staff to determine professional development needs centered around TACA DDD/DDI.	Purchase and implement survey and analytics tool to gather information from students and staff related to technology use and reliability.	Research	Technology Director	August	2018	\$3500/ annually

<p>3. Review and align professional development initiatives with staff and student needs determined by survey results.</p>		<p>Evaluation</p>	<p>Other; Building Technology Committees</p>	<p>March</p>	<p>2019</p>	<p>\$1,320 (\$132/day for 10 teachers)</p>
<p>4. Introduce new forms of data collection to staff through multiple professional development sessions throughout the school year.</p>		<p>Professional Development</p>	<p>Instructional Technology Coach(s)</p>	<p>June</p>	<p>2021</p>	<p>\$1,320 (\$132/day for 10 teachers), staff development days, and summer workshops.</p>

Technology Plan Goal #5

Digital Citizenship will be incorporated in a way which helps students, and all technology users within the district, understand appropriate technology usage and to prepare them for a society full of technology.

NYSED Goal Alignment

Develop a strategic vision and goals to support student achievement and engagement through seamless integration of technology into teaching and learning.

Target Population

All students.

Action Steps

Action Step	Action Description	Action Category	Responsible Stakeholder	Anticipated Month of Completion	Anticipated Year of Completion	Anticipated Cost
1. Professional development on the 9 elements of digital citizenship.	Through staff meetings and trainings all staff will become familiar with the 9 elements of digital citizenship.	Professional Development	Assistant Superintendent	June	2019	\$0
2. Develop digital citizenship curriculum K-12.	Explore and decide upon curriculum for K-12 use. Provided to staff through team meetings.	Planning	Assistant Superintendent	Sept	2018	\$1,320 (\$132/day for 10 teachers)
3. Implement digital citizenship curriculum K-12.	Begin teaching curriculum in k-12 classrooms.	Curriculum	Classroom Teachers	June	2019	\$0
4. Review policy and develop and	Review the current district policy and protocols for staff and students at the	Policy/Protocol	Other: District Technology Team	June	2021	\$0

<p>implement guidelines supporting digital citizenship (all stakeholders).</p>	<p>annual fall review. Ensure alignment across the district by developing and implementing guidelines appropriate for our digital citizenship program.</p>					
--	--	--	--	--	--	--

NYSED Initiatives Alignment

Use of Instructional Technology for Student Improvement

Technology will be embedded into everyday instruction with the goal to produce gains in student achievement and boost engagement.

Differentiated Instruction Using Technology for Students with Disabilities

The 1:1 initiative is for all students including students with disabilities at particular grade levels throughout the three year plan. Text to speech and/or speech to text software can be utilized to provide increased for comprehension of written or verbal language. Direct instruction may be recorded and provided for students to access asynchronously (school website, private online video platform). Technology is used to provide additional ways to access content to supplement verbal and/or written instruction. All special education students have assistive technology considered for academic support on an individual basis through the Committee of Special Education process. Technology can be used to increase options for students to demonstrate knowledge and skills. Interactive software will be used for all students to demonstrate knowledge of particular skills. Professional development will be provided to Special Education and aides around the technology initiatives.

Equitable Instructional and Assistive Technology for Students with Disabilities

The District will utilize technology to address the needs of Students with Disabilities to ensure equitable access to instruction, materials, and assessments through:

- Direct instruction is recorded and provided for students to access asynchronously (such as through a learning management system or private online video channel).
- Technology is used to provide additional ways to access key content, such as providing videos or other visuals to supplement verbal or written instruction or content.
- Text to speech and/or speech to text software is utilized to provide increased support for comprehension of written or verbal language.
- Assistive technology is utilized.
- Technology is used to increase options for students to demonstrate knowledge and skill.

Professional Development Plan for Teachers Serving Students with Disabilities

Professional Development that will be offered to Teachers of Students with Disabilities that will enable them to differentiate learning and to increase their student language and content learning with the use of technology includes:

- Technology to support writers in the elementary classroom
- Technology to support writers in the secondary classroom

- Research, writing and technology in a digital world
- Enhancing children's vocabulary development with technology
- Reading strategies through technology for students with disabilities
- Choosing assistive technology for instructional purposes in the special education classroom
- Using technology to differentiate instruction in the special education classroom
- Using technology to increase options for students with disabilities to demonstrate their knowledge and skills
- Multiple ways of assessing student learning through technology
- Electronic communication and collaboration
- Promotion of model digital citizenship and responsibility
- Integrating technology and curriculum across core content areas
- Helping students with disabilities to connect with the world

Use of Technology with ELL/ML Students

The district utilizes technology at address the needs of English Language Learners/Multilingual Learners to ensure equitable access to instruction, materials, and assessments through:

- Technology is used to provide additional ways to access key content, such as providing videos or other visuals to supplement verbal or written instruction or content.
- Text to speech and/or speech to text software is utilized to provide increased support for comprehension of written or verbal language.
- Home language dictionaries and translation programs are provided through technology.
- Technology is used to increase options for students to demonstrate knowledge and skill, such as through the creation of a product or recording of an oral response.

Technology Plan Addressing of ELL/ML Students

The district's instructional technology plan addresses the needs of English Language Learners/Multilingual Learners to ensure equitable access to instruction, materials, and assessments in multiple languages.

Yes, In the 5 most spoken languages in the district.

Professional Development Plan for Teachers Serving ELL/ML Students

Professional Development will be offered to Teachers Serving ELL/ML Students that will enable them to differentiate learning and to increase their student language and content learning with the use of technology by:

- Reading strategies for English Language Learners
- The power of technology to support language acquisition
- Using technology to differentiate instruction in the language classroom
- Multiple ways of assessing student learning through technology
- Integrating technology and curriculum across core content areas
- Helping students connect with the world

Use of Technology for Culturally Responsive Learning Environments

The district uses Instructional Technology to facilitate culturally responsive learning instruction and learning environments by:

- The district uses instructional technology to facilitate classroom projects that involve the community.
- The district uses instructional technology to develop and organize coherent and relevant units, lessons, and learning tasks that build upon students' cultural backgrounds and experiences.
- The district uses instructional technology to assist in varying teaching approaches to accommodate diverse learning styles and language proficiencies.
- The district uses instructional technology to enable students to communicate and collaborate with students in different schools or districts in New York State, the United States, or with different countries.

Administrative Management Plan

Staff Plan

Staffing is provided through Regional Information Center and BOCES Co-Ser Managed Services including Managed Technology Leadership, Instructional Technology Training, and Managed Infrastructure Technology Services.

Title	Full-Time Equivalent (FTE)
District Technology Leadership	0
Instructional Technology Support	0
Technical Support	0

Investment Plan

Anticipated Item or Service	Other Anticipated Item or Service Description	Estimated Cost	One-Time Cost, Annual Cost or Both	Potential Funding Source	Other Funding Source Description
Professional Development		\$15,500 (\$132 per day, per teacher)	Annual Cost	District Operating Budget	
Staffing		\$576,899	Annual Cost	BOCES Co-Ser Purchase	
End User Computing Devices		\$1,193,490	One-Time Cost	Other	BOCES Co-Ser Purchase and Instructional Materials Aid
Network and Infrastructure		\$532,500	One-Time Cost	Other	BOCES Co-Ser Purchase and E-Rate and Smart Schools Bond Act
Other	Pilot Emerging Instructional Technologies	\$150,000	One-Time Cost	Other	BOCES Co-Ser Purchase and Grants and Instructional Materials Aid

School Technology is Provided for Use in Non-public Schools in District

Yes

Public Website

www.norwichcsd.org

Assigned Person with Responsibility for Information Security

Steve Andrus, Director of Managed Technology Services

Assigned Person with Responsibility for Information Privacy

Gerard O'Sullivan, Superintendent

District-wide Information and/or Privacy Audit has been Performed

No

District Currently has a Digital Citizenship Plan for Students

Yes

District Currently has a Cyberbullying Awareness and Response Plan

Yes

District Currently has an Internet Safety Policy

Yes, will upload

District Currently has a Cyberbullying Policy

Yes, will upload

District Currently has a Parents' Bill of Rights

Yes, provided 2018

www.norwichcsd.org/Downloads/Parents%20Bill%20of%20Rights%20May%202018.pdf

District Currently has an Information Breach Policy

Yes, will upload

Website Link to District Technology Plan

www.norwichcsd.org/Downloads/NORWICH%20CSD%20TECHNOLOGY%20PLAN%202018-21.pdf