
Dunkirk City School District



620 Marauder Dr.
Dunkirk, NY 14048

District Website: <https://www.dunkirkcsd.org/>

Technology Plan:

Technology Plan

July 2018-June 2021

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Strategic Technology Planning

Overall District Mission

The Dunkirk City School District recently underwent a strategic planning process and developed a five-year strategic plan. In the development of that plan, the mission and vision of the district were updated. The mission of the Dunkirk CSD is to “Maximize potential for ALL students for All times... Whatever it takes.”

Instructional Technology Vision

The vision of the district, as a result of the strategic plan, is “One Dunkirk, One Community, One Goal...Learning for All!”

This vision statement will guide instructional Technology in the following ways:

- Increase the skills of students, faculty and staff in the use of instructional technology
- Use instructional technology to enhance teaching and learning as identified in district curriculum
- Continue to provide professional development to enhance teachers skills and knowledge
- Provide fully networked classrooms to allow access to integrated video and computer based learning systems
- Provide access to statewide, national, and global resources with the use of our network systems
- Develop a close working relationship with local businesses and the community to implement and apply technology in the district
- To allocate the funds, with the assistance of the Board of Education, in order to provide and implement technology in all phases of school operation
- Provide up to date technology to help foster learning and encourage independent use of technology throughout the district

Action Plan Goals

1. To Continue infrastructure upgrades including networking gear, servers, and cabling in order to accommodate the 1:1 initiative and support high-speed connectivity in the classroom
2. To provide 1:1 device implementation for all students grades 3-12 and improve instructional delivery systems by providing up to date devices such as new projectors, streaming devices, interactive display panels, large displays, and computers to support this equipment
3. To provide professional development to teachers and staff to increase knowledge and skills with respect to integrating instructional technology in a meaningful way to increase student achievement, increase professional efficiencies and better communicate within and across the district

Action Plan Implementation

Committee quarterly evaluates the progress of the Action Plan with the support of the Board of Education. Upon implementation, this will target all student populations.

Committee Members

The Committee consists of District Administrators and Teachers, as well as Library Media Specialists, Special Education Director, Senior Micro Computer Technical Support Specialists, students and community members that are invited to attend when relevant to the meeting topics.

Technology Committee Members Include:

Jeremy Dobek, Technology Coordinator
Theresa Gray, Assistant Superintendent
William Smock, District Administrator
Cheryl Symans, School 7 Kindergarten Teacher
Kris Dziduch, School 4 Grade 3 Teacher
Marie Cameron, Middle School ELA Teacher
Kathy Hauser, High School Special Education Teacher

Technology Committee Meetings and Outcomes

The Technology Committee meets a minimum of four times a year.

Agendas for meetings include three consistent topic areas for discussion/agreement:

1. Update on current hardware, software including outstanding QUE tickets, purchases and deployment of devices
2. Professional Development needed (all staff) to ensure appropriate use of technology
3. Future technology purchases/pilots

Meeting minutes are kept in Google Docs via Team Drive and plans updated as needed, based on the discussions.

Professional Development

Instructional technology needs and the districts vision are shared with all new employees as soon as they initiate service in our district. They are provided an in depth training as well as an overall view of the districts mission and goals during orientation. Current teachers and administrators are provided with workshops after school and during the summer targeting new technology as well as the integration of technology in their own classrooms. Job embedded coaching on technology is also offered as various instructional technology initiatives are

implemented (i.e. Google Classroom). Teachers are also provided with one on one technology assistance with difficulties/questions as they come up that are in line with the districts mission and vision.

Instructional Technology Goals Measurement and Evaluation

Goal 1 – A detailed inventory of network gear and server equipment will be completed and from that list items will be categorized by replacement need and completed as such. A protocol for purchases for buildings and departments will be developed talking into account the district budget and equipment replacement plan.

Goal 2 – The district will be investing in an inventory management system to identify the hardware that is utilized in each classroom as well as a spreadsheet of instructional software that is used. All new software requests will be evaluated by the Instructional Technology Committee, utilizing a rubric to be developed. This will include alignment to the district mission/vision/strategic plan. When needed, a pilot will be implemented to determine the effectiveness of the software proposed as related to student achievement.

Goal 3 – The District Professional Development Plan will be used to help plan and evaluate the professional development that is offered in the district and utilize the data collected from the programs to determine effectiveness in increasing student achievement.

Action Plan

Goal 1: Continue Infrastructure upgrades including networking gear, servers, and cabling in order to accommodate the 1:1 initiative and support high-speed connectivity in the classroom.

NYSED GOAL: Design, implement, and sustain a robust, secure network to ensure sufficient, reliable high-speed connectivity for learners, educators, and leaders.

	Action Step	Action Step Description	Responsible Stakeholder	If “other” is selected in the column to the left, please identify here	Anticipated Month of completion	Anticipated Year of completion	Anticipated Cost
1.	Planning	Determines network need	Other	Technology Committee and Director of Technology	June (06)	2021	\$0.00
2.	Budgeting	Budget for the determined cost of equipment and installation	Other	Director of Technology, Business Official, Assistant Superintendent, and Superintendent	June (06)	2021	\$65,000.00
3.	Purchasing	Obtain quotes, process requisitions and	Other	Director of Technology and Business Official	June (06)	2021	\$0.00

		PO's and secure installation labor					
4.	Implementation	Process inventory, install and setup equipment	Other	Technical Staff Installers	June (06)	2021	\$0.00

Goal 2: Provide 1:1 device implementation for all students in grades 3-12 and improve instructional delivery systems by providing up to date devices such as new projectors, streaming devices, interactive display panels, large displays, and computers to support this equipment.

NYSED Goal: Increase equitable access to high-quality digital resources and standards-based technology-rich learning experiences.

	Action Step	Action Step Description	Responsible Stakeholder	If "other" is selected in the column to the left, please identify here	Anticipated Month of completion	Anticipated Year of completion	Anticipated Cost
1.	Planning	Determines needs, select devices, develop time table, assess PD needs	Other	Technology Committee and Director of Technology	June (06)	2021	\$0.00
2.	Budgeting	Budget for the determined cost of equipment and PD needs	Other	Director of Technology, Business Official, Assistant Superintendent, and Superintendent	June (06)	2021	\$630,000.00
3.	Purchasing	Obtain quotes, process requisitions and PO's, and order equipment	Other	Director of Technology and Business Official	June (06)	2021	\$0.00
4.	Implementation	Process and inventory equipment, deploy services, and provide PD	Other	Curriculum and Instruction Leaders, Director of Technology	June (06)	2021	\$0.00

Goal 3: Provide professional development to teachers and staff to increase knowledge and skills with respect to integrating instructional technology in a meaningful way to increase student achievement, increase professional efficiencies and better communicate within and across the district.

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

	Action Step	Action Step Description	Responsible Stakeholder	If “other” is selected in the column to the left, please identify here	Anticipated Month of completion	Anticipated Year of completion	Anticipated Cost
1.	Planning	Determine district wide PD needs and requirements	Other	Curriculum and Instruction Leaders, Technology Committee, and Director of Technology	June (06)	2021	\$0.00
2.	Budgeting	Budget for annual PD service renewal fees	Other	Director of Technology, Business Official, Assistant Superintendent, and Superintendent	June (06)	2021	\$120,000.00
3.	Purchasing	Obtain quotes, process requisitions and PO's and order equipment	Other	Director of Technology and Business Official	June (06)	2021	\$0.00
4.	Implementation	Staff proficiently integrates learning and technologies into their curriculum and instruction	Other	All Staff	June (06)	2021	\$0.00

NYSED Initiatives Alignment

Standards Attainment and Student Performance Improvement

Dunkirk City School District is very committed to rigorous academic standard attainment and performance improvement for students. We are committed to using technology in the classroom to foster its use in learning as well as utilizing it towards career-based development. Providing technology 1:1 and monitoring its progress will ensure it is benefiting our students towards academic standards.

Differentiated Learning for Students with Disabilities

Our technology program again stands in line with our district missions, which supports learning for all. Technology is adapted to support individual's strengths. Multi-modalities are used to share technology with all students in the district including students with disabilities. All teachers have access to Kurzweil in order to have assessments and assignments read as dictated on IEPs on desktop/laptop computers or Chromebooks in the 1:1 classrooms (Grades 3-6 currently). Special Education teachers have access to adaptive add-ons and apps through Google to help with accessibility of documents. The Technology Committee reviews requests for additional add-ons/apps as they are sent to the Technology department. As per IEPs, iPads may be assigned to students with motor or speech needs, with assistive apps added as required (ex. ProLoQuo to go, Hearbuilder, etc.). Large keyboards, larger monitors, and specialized mice are also provided to students per IEPs.

Equitable Access for Students with Disabilities

The District utilizes technology to address the needs of Students with Disabilities to ensure equitable access to instruction, materials, and assessments. Examples of this include:

- Class lesson plans, materials, and assignment instructions are available to students and families for 'anytime, anywhere' access (such as through class website or learning management system).
- 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.
- Learning games and other interactive software are used to supplement instruction.

Professional Development for Special Education Teachers

Professional Development 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. Examples of this include:

- 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 students 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

Equitable Access for ELL Learners

English Language Learners/Multilingual learners are provided equitable access to instruction, materials, and assessments in multiple languages. English Language Learners (ELL) develop their academic language skills using technology in the ELL classroom. Examples of the integration of technology in our ELL curriculum include:

- Class lesson plans, materials, and assignment instructions are available to students and families for ‘anytime, anywhere’ access (such as through class website or learning management system).
- 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.
- Home language dictionaries and translation programs are provided through technology
- Hardware that supports ELL/MLL student learning, such as home-language keyboards, translation pens, and/or interactive whiteboards, is utilized.
- 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.
- Learning games and other interactive software are used to supplement instruction.

Professional Development for ELL Educators

Professional Development will be offered to teachers of English language learners/multilingual learners that will enable them to differentiate learning and to increase their student language and content learning with the use of technology. Examples of this include:

- Technology to support writers in the elementary classroom
- Technology to support writers in the secondary classroom
- Research, writing and technology in a digital word
- Writing and technology workshop for teachers

- Enhancing children’s vocabulary development with technology
- Writers workshop in the bilingual classroom
- Reading strategies for English Language Learners
- Moving from learning letters to learning to read
- 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
- Electronic communication and collaboration
- Promotion and model digital citizenship and responsibility
- Integrating technology and curriculum across core content areas
- Helping students connect with the world
- The interactive whiteboard and language learning
- Use camera for documentation

Culturally Responsive Instruction and Learning Environments

Dunkirk City School District uses instructional technology to facilitate culturally responsive instruction and learning environments using instructional technology to:

- Strengthen relationships and connections with families to assist in building a culturally responsive learning environment to enhance student learning.
- Facilitate classroom projects that involve the community.
- Develop and organize coherent and relevant units, lessons, and learning tasks that build upon students’ cultural backgrounds and experiences.
- Assist in varying teaching approaches to accommodate diverse learning styles and language proficiencies.
- Enable students to communicate and collaborate with students in different schools or districts in New York State, the United States, or with different countries.
- Facilitate collaborative classroom projects among heterogeneous student groups.

Administrative Management Plan

Staff Plan

Currently the District has on staff one full time Technology Coordinator, ten days of baseLAN Microcomputer Technical Support specialist (MCTSS) help contracted through Erie 1 BOCES, and four days a week Senior Microcomputer Technical support specialist (SMCTSS) help contracted through Erie 1 BOCES.

Below is a table showing out current Full-Time Equivalent (FTE) count, as of plan submission date, of all staff whose primary responsibility is delivering technology integration training and support and/or technical support for teachers.

Title	Full-Time Equivalent (FTE)
District Technology Leadership	1.00
Instructional Support	1.50
Technical Support	2.80
Totals:	5.30

Investment Plan

Expenditures for the years 2018 through 2021 are provided to support the action plans listed. Anticipated cost for the next three years are also provided. There is a three-year projection and plan for the portion of the technology budget devoted to computers, peripherals, installations, Professional Development and the network and infrastructure. The District will apply funds in accordance with educational needs and the District Technology Plan.

The following three-year plan is a projection. Please keep in mind that technology advances at a rapid rate and the District cannot foretell what will be available in future years. This plan reflects our current goals and needs but may need to be revised as technology advances.

Three-year investment plan to support the vision and goals:

<u>Anticipated Item</u>	<u>Estimated Cost</u>	<u>Potential Funding Source</u>
End User Computing Devices	\$315,000.00 Annual	<ul style="list-style-type: none"> • BOCES Co-Ser purchase • District Operating Budget • Smart Schools Bond Act
Peripheral Devices	\$315,000.00 Annual	<ul style="list-style-type: none"> • BOCES Co-Ser purchase • District Operating Budget • Smart Schools Bond Act
Network and Infrastructure	\$65,000.00 One-time	<ul style="list-style-type: none"> • BOCES Co-Ser purchase • District Operating Budget • E-Rate
Professional Development	\$120,000.00 Annual	<ul style="list-style-type: none"> • BOCES Co-Ser purchase • District Operating Budget
Totals:	\$815,000.00	

Innovative Educational Technology Programs

Dunkirk City School district uses an innovative educational technology program that has been implemented at building or district levels. Examples of this include:

- Active Learning Spaces/Makerspaces
- Device Planning and Implementation (1:1; BYOD)
- Infrastructure
- Personalized Learning
- Pilots and Proof of Concept
- Policy, Planning, and Leadership
- Professional Learning
- Project-based Learning

If you need to obtain more information about the innovative programs please contact Theresa Gray, Assistant Superintendent at tgray@dunkirkcsd.org.

Additional Resources and Information

Resource	Link or Responsible Party
Public School Website	https://www.dunkirkcsd.org/
Information Security Designee	Michael Sullivan, CIO
Information Privacy Designee	Michael Sullivan, CIO
Information security and privacy audit schedule	Every 2 years
Education Program for Online Behaviors (cyberbullying, social networking, internet safety)	http://isafe.org/
District Internet Safety Policy	https://main.wnyric.org/policies/Dunkirk.nsf/bf25ab0f47ba5dd785256499006b15a4/3ea51ce34453d5d38525837c00534a72/\$FILE/8271%20--%20Internet%20Safety-Internet%20Content%20Filtering.pdf
District Cyberbullying Policy	https://main.wnyric.org/policies/Dunkirk.nsf/bf25ab0f47ba5dd785256499006b15a4/92cf59dbb55193ca8525837b007036ff/\$FILE/7550%20--%20Dignity%20for%20All%20Students.pdf
Parents Bill of Rights for Data Privacy and Security	https://main.wnyric.org/policies/Dunkirk.nsf/bf25ab0f47ba5dd785256499006b15a4/e7cd8ee533fe76d08525837b006ef6f8/\$FILE/7240%20--%20Student%20Records%20-%20Access%20and%20Challenge.pdf