Long Range Technology Plan, 2016-2020

Revised July 2016

Districts Technology Committee:

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Melanie Welch, Elementary Principal
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Michael Stalteri, High School Principal
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Frankfort-Schuyler Central School District's Technology Vision and Mission Statement

The Frankfort-Schuyler School District recognizes the ever-changing and ever-increasing power of technologies as a life-altering avenue for our students and their learning. Technology, already used heavily by our students in their personal lives, is an essential catalyst for their roles as students, lifelong learners and citizens with productive lives.

Technology facilitates differentiation, enables students to create, think, problem solve and connect to real world experiences and help's to improve effectiveness and efficiency in the classroom. It is imperative that we continue to integrate technology throughout the curriculum.

Frankfort-Schuyler Central School District will create learning and teaching environment that will use technology as a tool to provide an environment that will allow students and staff to achieve their educational, personal and workplace goals.

The district's goal is to enable 24-7 access to school learning resources through a learning management system, to provide unlimited access to lessons, homework assignments, learning resources and to help provide open lines of communication between staff, students and parents.

Technology Implementation Guidelines for 2016-2020:

- All classes (with the exception of Art, Music and Physical Education) will be provided with a classroom set of devices (tablets, computers and/or chrome books)
- Technology will be integrated into the current curriculum, followed and reviewed annually
- The district will provide for staff development opportunities
- Technology will be used as a tool for communication with staff, students, parents, community members and learning communities.
- Yearly review and amendments of the Long Range plan will be completed in accordance with the school budget calendar. Any modifications to this plan will be based on student instructional needs, evolving technology and financial considerations.
- The Technology Committee will be maintained in order to ensure the efficient and effective use of technology. (see K-12 technology committee responsibilities).
- Each of the principals will oversee the utilization of technology in the learning environment in their buildings.
- Each principal will be responsible for communicating their school's specific instructional needs and developments, as reported by their respective stakeholders among the school population to the Technology Committee.
- Principals of the Technology Committee will convey information from the meetings to their buildings.
- Also, please see appendix B, instructional technology survey (updated annually).

Technology Support:

In order to fully integrate technology into the curriculum, training and technical support needs need to continually provide by:

Business Administrator:

- Oversee all technology purchases
- Oversee all technology personnel
- Coordinate technology training
- Responsible for implementation of the district's technology vision and usage of technology devices
- Responsible for district website and social media sites
- Maintain district wide inventory of hardware and software
- Responsible for districts SMART BOND and annual updates to the districts instructional technology plan.

Technicians (1.4 FTE)

- .8 staffed by Mohawk Regional Information Center and .6 by Oneida BOCES, shared services employees providing daily coverage.
- Troubleshoot hardware and software
- Repairs of hardware
- Setup and installations of new hardware and software
- Maintain district file servers and technology equipment
- Help with district's Google domain, SMART Bond and the district's instructional technology plan.

Instructional Support Specialist (.2 FTE)

- .2 FTE staffed by Oneida BOCES, shared services employees providing coverage one day per week.
- Provide training, classroom implementation and one to one support to staff in implementing technology in the classroom.

Training

- All district personnel shall have opportunities for ongoing training in technology.
- Classes will be offered throughout the school year and during the summer. Training sessions will be held at times that will provide the least amount of disruption in the students learning environment.
- Periodic surveys will be given to staff to assess their professional development (PD) needs.
- Learning will be tracked via My Learning Plan and other appropriate tools.

Long Range Plans:

Elementary (Grades K-5):

The school will remain current with the advances in technology at the ISTE standards. One computer lab will be maintained for weekly Technology classes. An additional chrome book cart of 30 chrome book carts will be available for classroom sign out. K-2 classrooms will be equipped with one tablet per student. 3-5 classrooms will be equipped with one chrome book per student. All AIS classes will have a minimum of 5 chrome books. All special education classes will have a minimum of 12 chrome books. Art and Music will be able to sign out the chrome cart for usage in their classrooms. Every classroom will have an interactive whiteboard and document camera.

Technology will be integrated in the instructional process to support the Common Core Technology Standards and to help students develop skills for living in a knowledge-based, highly technological society. Students will demonstrate proficiencies in keyboarding, word processing skills, and integration of subjects across the curriculum through the use of multimodal sources, writing on demand at the computer and use of technology to aid in test preparation. The curriculum will contain opportunities for students to present their understanding of prescribed Common Core learning objectives while completing inquiry-driven and project based learning events allowing students to showcase their knowledge of presentation technology. Students will receive instruction in digital citizenship. Staff will continue to become proficient in teaching technology skills to students to reflect the ISTE standards.

Student technology portfolios will contain evidence of the following skills: gather information from print and digital resources; interpret information presented visually, orally, quantitatively and explain how the information contributes to an understanding; promote inquiry and collaboration to support self-directed learning; and conduct short research projects and portray the understanding through the use of a variety of presentation models. All students will be able to follow guidelines for safe digital citizenship.

The district will maintain and subscribe to a variety of software to enhance student's individual learning needs. Special attention will be given to differentiating instruction, assistive technology, and updated instructional technology.

Middle School (Grades 6-8):

We continue to strive to ensure that technology is seamlessly integrated into the educational process, instruction, and learning for all students and faculty alike in the Middle School. We hope that technology is utilized as a means for learning, communicating and collaborating for students, faculty and families. It is our mission for students and teachers to have access to appropriate technology in which they are able to utilize effectively through a variety of measures, purposes and learning avenues.

Technology is an essential tool required to instill and teach students the 21st century skills that focus on students' abilities to develop their creativity and innovation skill sets. Students will be able to utilize technology to develop more critical thinking and problem solving skills while working to enhance their communication and collaboration abilities. Recognizing that we live in a technology and media-driven environment, marked by access to an abundance of information and rapid changes in technology, students will be given opportunities within their learning environment to collaborate and make individual contributions on an unprecedented scale. Finally, we are going to strive to promote both functional and critical thinking skills that enhance Information, Media, and Information, Communications and Technology Literacy.

Instruction will continue to take place through Google Classroom with teachers utilizing Chromebooks, Smart Boards, Epson Bright links, data projectors, document cameras and TI 34 and TI-Inspire graphing calculators. Professional development opportunities will continue to be offered to ensure that teachers have a full understanding of the capabilities of their technology are able to utilize these means appropriately to enhance instruction within their classrooms.

Technology and internet resources continue to be a focus as we seek to use various content resources to connect student learning to real life communities, contexts and experiences. We hope to increase student current events' awareness as well with technology. Teachers will also work to ensure that students can research and solve real world problems using online learning resources, appropriate internet websites, data bases and applications. Students will work to collaborate with their teachers and peers with the help of media forums, Google Docs, and Chromebooks in order to complete various presentations, projects and assignments.

<u>High School (Grades 9-12):</u>

The Faculty and staff at the high school are currently using Smart Boards, document cameras, chrome books, google apps and google classroom for their primary instruction. Our School currently uses School tools, OASYS, Microsoft Office, Windows 7, Microsoft Word, Adobe Reader, and Excel to support their classroom management and instruction. The district has moved to a web based G-mail which provides opportunities for document sharing with colleagues and students and quick easy communication access. The district also upgraded to an AVYA IP computer based phone system. Teachers are still using Brain Honey a program which permits students to post questions that classmates and their teachers can respond to, review homework and track progress of each student. Administration uses school tools Advanced now which provided easy access to data analysis reports and an easy to use dashboard. OASYS and My learning plan are now into full implementation providing professional development opportunities and documentation as well as all profession an analysis of the APPR.

Our Project Lead the Way (PLTW) Program has made many advances providing courses in engineering, architecture, and digital electronics. The program has now expanded to two full computer labs to provide easy access and to expand the program. The program has grown at such an accelerated rate, area school

districts are now sending students to take part in the FSHS program. To support the instruction, the following technology is used:

- Autodesk Inventor software
- ECalc – calculator
- Multisim software
- Xilinx software
- Breadboard Trainers for hands on circuit design
- ECalc - calculator
- Vex Robotics and Robot C software
- MD Solids
- West Point Bridge Builder
- Autodesk Inventor software
- America's Army software
- Logger Pro software need to purchase hardware to run program
- Revit Software

The Science and math departments continue to use TI-Nspire and TI-Nspire Navigation software for their calculators as well as the chrome books. Many of our math classes are flipped so the use of proper software and the chrome books are imperative to the success of the instruction. Some students still have issues accessing internet at home. One challenge the department faces is ensuring this access for all. Google apps, google classroom, Edpuzzle, Buzz, Motion detectors and castle learning along with full broadband wireless internet are being fully utilized. The science department is using the document cameras, smartboards and microscopes that connect to the smartboards as well as the chrome books to support their instruction.

The high school continues their vision of having chrome books in all the classrooms including the library. We currently are making structural changes to the library media center to support wireless technology and the implementation of chrome books and begin phasing out the standardized desktop computer. We are still in windows 7 and look to upgrade to the most current form of windows in the near future. We have replaced many of our computer stations in the classrooms and with the wireless chrome books we are able to eliminate on of two existing computer labs and keep students in the classroom limiting distractions and travel time. Staff would like technology to control and view student chrome books from computers to block students on websites or monitor them as they take exams. The high school has now opened a testing room for students with IEP's to receive their accommodations. Software is in the process of being purchased for exams to be scanned and read to students eliminating the need for another instructor and providing students with a self-pacing model. The math and science departments would like to use their projectors wirelessly from their tablets to allow more versatility in moving around the classroom for instruction.

Committee on Special Education:

Students in the resource room and the 12:1:1 Classroom will have chrome books available for them. The district will purchase the Read & Write software for students and teachers to use. This will support students in their ELA and Reading goals. Read and Write tools include Text to speech (for students who need tests or directions read to them), talking dictionary, picture dictionary, word prediction, fact finder, translator, highlighters, vocabulary list builder, and voice notes. Read and Write can also simplify research found on the internet and can organize highlighted material. It also allows students to annotate. Read and Write will allow for visual, auditory and tactual interaction with curriculum for CSE students.

Students will be able to take their tests on the chrome books which will eliminate much of the need for teachers to read tests a loud to students. In the high school, there will be a testing center which will utilize the read and write program so that students can take different tests at the same time using head phones. This will also better prepare students for college since this is the technology that colleges use to provide such accommodations.

Currently, students in k-6 are assessed on their reading and math progress by use of the star program. This will be expanded to include students with disabilities in grades 6-11 as well. This monitoring will help us in writing goals for our students' IEP.

All of our students with disabilities participate, at some level, in the general education setting. Therefore, special education students will be exposed to any technology used in the general education classroom they attend. The special education teachers also work with the same curriculum as the general education teachers for direct instruction. Any technology use in the ELA, Math, and Reading general education classrooms will be supported in the 12:1:1 classrooms as well. Technology will be used as a learning tool for all students in our district.

Students who need assisted devices will continue to get that support. Students who need a brailing program and equipment will have that provided for them. Students who need to use word processing will have access to devices that accommodate their specific needs. Students who are recommended to use an FM training system or a speech to text devise will also have these provided to them.

Budget:

Each year, the district has budgeted the following in addition to the district $942,793 SMART bond allocation.

Equipment: $30,000

Computer Supplies: $12,570

Computer Software: $17,500

Hardware (BOCES): $20,000

Technology Committee Responsibilities:

The K-12 technology committee will be responsible for:

- Developing and updating a long range technology plan for the district.
- Overseeing the implementation of the long range technology plan objectives.
- Investigating and exploring technological advances that serve any instructional or educational purpose.
- Reporting to the Board of Education on the progress and implementation of the long range technology plan through the technology coordinator.
- Submitting recommendations as needs arise to support all aspects stated in the goals and objectives of the Long-Range Technology Plan.
- Providing guidance and expertise to building committees and staff throughout the technology implementation process.
- Assessing the current and future technological needs of the district.
- Exploring outside funding resources
- Disseminating information regarding the use and necessity of integrating technology into the curriculum.
- Responsible for the creation and updating of the K-12 technology curriculum (see appendix A).
- Create surveys to evaluate where the district is and what the needs are for future planning.
- Overview and implementation of SMART bond.
- Each building technology panel will be responsible for:
- Assessing their staff and student's needs based on instructional objectives.
- Providing the technology committee with justification for proposed purchases.
- Disseminating information to all building staff in regards to training and awareness workshops.
- Setting regular meeting dates and times and providing the committee members with agenda prior to the meetings.
- Sharing ideas and plans with the rest of the building staff or with staff members in district.
- Communicating plans, activities, progress or decisions with their building team and faculty.