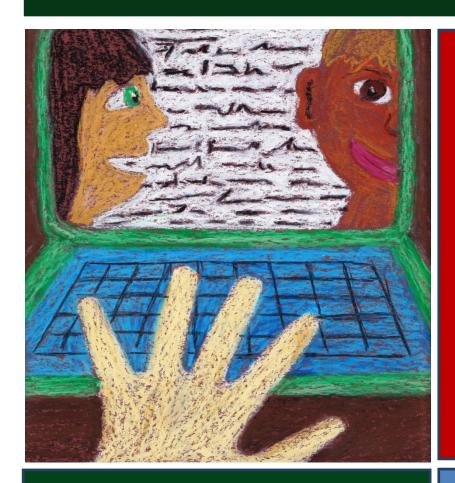# Fayetteville-Manlius Schools Technology Plan

2011-2017

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*Building on Excellence:
Preparing students for the 21st
Century*

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Last Updated June 2014 BY the 2016 Technology Committee

Acknowledgements

The Technology Planning Committee worked in connection with the Technology Committee.

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District Technology Vision

Computers and information technology have transformed the way the world learns, communicates, and conducts business. The rate of world changes due to technological advances has impacted a shift in our students' education. The Fayetteville-Manlius School District is committed to preparing students with the technological skills necessary to make wise decisions, work productively and compete globally. Every student will have the opportunity to utilize technology to access and analyze information, develop higher order thinking skills, solve problems, and contribute to the global community.

The Fayetteville-Manlius Central School District has a shared vision to provide equitable access to superior teaching, authentic experiences for students, and around the clock technology support for all students and staff with technology. From the Board of Education to the District Planning Team to in-service offerings and digital portfolios, Fayetteville-Manlius has created an innovative technology experience for students, teachers, administrators, and the community.

> Today's educators must provide a learning environment that takes students beyond the walls of their classrooms and into a world of endless opportunities. Technology standards promote this classroom transformation by ensuring that digital-age students are empowered to learn, live, and work successfully today and tomorrow.

(ISTE, 2013)

District Goals

In keeping with the need to prepare students with 21st Century Skills, the technology plan has adopted the ISTE NETS (International Society for Technology Education, National Educational Technology Standards), the Common Core Standards and the District's vision to incorporate technology into daily instruction.

The following goals and objectives embrace the computer benchmarks (Appendix 1), and the NETS standards, and reflect the District's commitment to developing technologically literate students (Appendix 2). Teachers and students will meet the expectations of the technology benchmarks across the curriculum.

The following goals support the improvement of student achievement in preparation for college.

- Teachers and students of all abilities will use technology to increase personal productivity and efficiency.
- Teachers and students will use technology to evaluate, create, and archive instructional products that represent a mastery of knowledge.
- Teachers and students will become effective and efficient users of the Fayetteville-Manlius 21st Century skills and attributes (See Appendix 2).
- Teachers and students will demonstrate creativity and innovation by promoting creativity, inventiveness, and curiosity.
- Teachers and students will use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.
- Teachers and students will use 21st Century tools to think critically and solve problems (Appendix 3).
- Teachers and students will take personal responsibility by demonstrating knowledge of ethical and legal issues relating to technology.
- Teachers and students will become active users of technology in the global community and demonstrate social responsibility.
- Teachers and students will develop cultural understanding and global awareness by engaging with individuals of other cultures.

Professional Development

The Fayetteville-Manlius culture is one of collaboration, collegiality, and shared goals. Professional development is important to the district's motto of "excellence." The district offers a variety of professional development opportunities including, but not limited to, support from computer resource teachers, webinars, tutorials, district wide in-services, mini workshops, curriculum meetings, department and grade level collaboration meetings, support from individual teachers, team teaching collaborations, curriculum development opportunities, the annual technology and instruction fair, and local and national conferences.

The district is committed to staying current with the ever changing technologies that support 21st Century skills. There is one computer resource teacher supporting K-4, another for grades 5-8, and a third is available at the high school. Resource teachers provide instruction in faculty meetings, one on one support, curriculum meetings, staff days, team teaching, and in-service classes. These teachers also regularly meet with grade levels/departments and offer mini workshops during planning periods or before and after school hours. In addition, they work closely with the computer lab assistants. Computer resource teachers evaluate and investigate the merits of new and emerging technologies.

In-service classes are also offered by colleagues. Instructors consist mostly of teachers but also include staff from the local BOCES Model Schools program. Workshops are also offered by professional vendors. In order to facilitate collaboration and teacher leaders, participants of in-service classes are asked to share lessons and activities. In relationship with BOCES, Syracuse University, and Fayetteville-Manlius Continuing Education, the district provides workshops for community members around the county.

The Coordinator of Technology offers mini workshops for administrators that include ways for administrators to use the same technology as teachers. Administrators also attend the Model Schools BOCES ITD Talks programs promoting new and developing technologies.

The technical staff is constantly updating knowledge with infrastructure growth, efficiency of running servers and switches, and security.

How-to videos created by the computer resource teachers are sent periodically to teachers quickly demonstrate the use of new hardware and software.

In coordination with the District Professional Development Team, the District will plan large scale Instructional Fairs offered once a year to focus on the integration of technology in all content areas. These events will promote teacher leadership and will showcase at least 20 teachers in addition to consultants, vendors, and BOCES trainers.

Professional Development Goals

- Provide professional development to staff that is directed at supporting the District's technology benchmarks and promoting student achievement.
- Provide training for the integration of technology into curriculum and instruction.
- Provide ongoing support and staff development for teachers, support personnel and administrators for effective, efficient, and appropriate use of computer technology to support classroom instruction and the professional and personal use of computers to improve efficiency.
- Facilitate and inspire student learning and creativity through both face-to-face and virtual learning experiences.
- Design digital-age learning experiences and assessments by incorporating contemporary tools and resources to maximize content learning in context.
- Model digital-age work and learning by exhibiting knowledge, skills, and work processes that are representative of an innovative professional in a global and digital society.
- Promote digital citizenship and responsibility by understanding local and global societal issues and responsibilities in an evolving digital culture and exhibit legal and ethical behavior in their professional practices.
- Engage in professional growth and leadership opportunities to continuously improve professional practice and exhibit leadership in the classroom, school, and professional community by promoting and demonstrating the effective use of digital tools and resources.

Technology Program Assessment

Fayetteville-Manlius uses multiple groups to evaluate and review the integration of technology in addition to the infrastructure on a yearly basis through multiple means. The district follows ISO standards (International Standards Organization) to evaluate the quality of the technology infrastructure and technical staff. Organizational structures such as the ordering of software, backup, student systems user accounts, inventory, helpdesk procedures, technical training, and work orders are reviewed on a yearly basis. Two of these areas are audited on a yearly basis.

Yearly reports are presented to the Board of Education. The entire infrastructure, including wireless, controllers, switches, bandwidth and phone, is reviewed and updated annually

(Appendix 7). During this time, the replacement plan is reviewed as technology hardware is purchased and disposed of (Appendix 8).

Each year an annual review of BOCES services is conducted that includes yearly technology purchases, online subscriptions, telecommunication services, and technology needs for the following school year.

The Technology Committee completes an annual review of the Technology Plan. This review includes surveys from staff and students, curriculum reviews, and feedback from teachers and administrators. The goal of the review is to stay updated with the ever changing technology and remain current with 21st Century changes. In turn, the Technology Committee will review feedback to create, update and maintain the District Technology Plan.

The Technology Committee fosters technological innovation through a formalized process where, at the request of the teachers, the technology is provided as a pilot. The pilot team of teachers becomes trainers and support staff for that hardware (Appendix 8).

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