

**The Public Schools of Dover and Sherborn  
Technology Plan Supplement for Dover-Sherborn High School  
School Year 2014-2015& 2015-2016**

**Background**

This Technology Supplement provides insight as to how the instructional leadership team and the educators at Dover Sherborn High School plan to enhance existing curriculum to address a society where skills for success are now broadly based, digitally motivated, and mobile bound. Aligned with the Dover Sherborn Public Schools Technology Plan, the Supplement speaks to the school's efforts in meeting the needs of today's learner and to supporting the mission of the Dover Sherborn Public Schools in a broad sense and to the school improvement goals of Dover Sherborn High School specifically. This document speaks to the role of technology and related resources in enhancing and supporting curriculum to address the dynamic nature of students' learning styles and to transform the learning process.

As we identify best practices for integrating technology into curriculum, we look to shift from our current approach of strict hardware replacement to a more client-driven model based on the needs directly associated with curriculum development and delivery. Capital funds have historically been used to replace existing hardware according to a replacement cycle with some instructional dialog/input, but in a concerted effort to truly transform teaching and learning to meet societal demands and learners' needs, a paradigm shift is needed. When pedagogically appropriate, technology can serve as a vehicle in fortifying the curriculum and optimizing the learning experience.

Henceforth, the school district's budget request earmarked for technology will support this Technology Supplement, and align with the technology literacy tenets underlying the Common Core Standards, ISTE Standards, and the Dover Sherborn Public Schools Technology Plan. Such financial support is vital in creating and sustaining an innovative, project-based, dynamic, and student-centered learning environment in which students experience more personalized learning. Models such as blended learning and flipped classrooms are some examples of how technology can facilitate students' learning and provide an opportunity for teachers to appropriately differentiate instruction, provide adequate supports for struggling students, and enrich the learning experience for those students ready for a challenge. As is the case in all schools within the Dover Sherborn Public Schools, it is expected that learning be rich, robust, rigorous, and relevant, and emphasize higher order thinking skills. Technology is a tool in achieving this end by recognizing and accommodating student's diverse learning needs and styles.

This Supplement defines our approach to technology integration at Dover Sherborn High school and speaks to ongoing professional development designed to ensure that faculty members are trained to effectively integrate technology into the curriculum.

The Dover Sherborn Public Schools Educational Technology Plan aligns with the National Educational Technology Plan in:

- Incorporating Project-Based Learning (PBL) into the curriculum, allowing for flexibility and creative thinking

- Creating a teaching environment that includes elements of the flipped classroom, blended learning, and technology resources to assist standards-based curriculum units that are relevant and rigorous
- Designing lessons including the 5 Cs of concepts of knowledge, critical thinking, communication, collaboration, and creativity
- Providing a means by which students can easily access information and become active participants in the learning process
- Allowing students to be active learners who are responsible for their own learning

### **Vision**

Dover Sherborn will enhance student learning by providing teachers and students with the necessary resources, skills, and tools in an interactive technology integrated environment.

### **Goal**

Integrate technology skills to support critical thinking, problem solving, communication, collaboration, creativity and innovation while addressing and accommodating individual learning styles.

### **Implementation Cycles**

The Technology Committee of Dover Sherborn High School - comprised of administration, faculty and the Technology Integrator - strives to engage, support, and encourage all students by granting them global access to information and communication; instill all students with the technology skills that will enable them to find success in today's global society; and ensure that staff and administration receive the opportunities, skills, and equipment to successfully integrate technology into their classrooms and curricula.

The following National Educational Technology Plan (NETP) Goal drives this Supplement:

#### **NETP Goal #1: Learning: Engage and Empower**

All learners will have engaging and empowering learning experiences both in and out of school that prepare them to be active, creative, knowledgeable, and ethical participants in our globally networked society.

<http://www.ed.gov/technology/netp-2010/learning-engage-and-empower>

## Action Plans – Dover Sherborn High School

### SCHOOL YEAR 2014-2015

**Goal 1:** To provide professional development to enhance the capacity of educators to integrate technology for robust teaching and learning and to provide uniform tool for collaborative communication between staff, parents/guardians, and the communities.

**Curriculum Connections:** Professional development and maintenance of equipment affords educators and students access to content, the ability to analyze data, to interact with digital media, and to deliver real-time assessment data to teachers.

**Budget Implication:** none at this time

#### **Action plan**

- Provide professional development for educators in the use of a learning management system (Aspen or Google) to create an interactive website for collaborating, communicating and sharing with students/families
- Provide professional development for educators to expand the use of Google Apps for education
- Create a high school toolkit of software and web-based tools
- Create, administer and analyze a educator survey on needed PD to integrate technology for robust teaching and learning
  - Based on articulated areas, develop PD for educators, using district personnel to facilitate sessions

**Goal 2:** To increase communication with families and the communities

**Curriculum Connections:** Families will develop a better understanding of long- and short-term initiatives and their purpose.

**Budget Implication:** none at this time

#### **Action Plan**

- Investigate solution(s) to allow mobile devices to access key information from the DSHS by way of increased use of website, *School Connect*, Aspen, etc.

**Goal 3:** To expand the Bring Your Own Device (BYOD) platform to facilitate a robust student-centered 21<sup>st</sup> Century learning environment.

**Curriculum Connections:** Educators will increase exploration and use of technology for instruction in a variety of curricular settings, build capacity with devices, enhancing access to information and opening up opportunities to develop 21st century skills.

**Budget Implication:** Refer to the chart inserted at the end of this plan

**Action Plan**

- Explore educator professional development needs as noted in the survey (e.g., use of Google Apps, common sites, differing devices)
- Share BYOD strategies at faculty meetings

**Goal 4:** Define a technology replacement cycle plan assuring technology is maintained and upgraded.

**Budget Implication:** Refer to the chart inserted at the end of this Plan

**Action Plan**

- Review inventory in consultation with the Direct of Technology to determine priorities and needs as aligned to the Technology Supplement Plan

### School Year 2014-2015 Budget Appropriation

<b>Item</b>	<b>Cost</b>	<b>Purpose</b>	<b>Timeline</b>	<b>Alignment to goal</b>
Improved infrastructure, based on assessment of current infrastructure	TBD ~\$5,000	Support wireless connectivity	Summer/Fall 2014	4
Apple TV with adaptor (16)	16 @ \$175/each Total: \$2,800	Replace dated laptops	Summer/Fall 2014	3, 4
Projectors	7 @ \$1,600/each Total: \$11,200	Replace dated projectors	Summer/Fall 2014	3, 4
iPads, version 2 1 cart (25)	\$25 @ \$400 each Total: \$10,000	Replace dated devices	Summer/Fall 2014	3, 4
Foreign Language lab software	\$11,319	Replace outdated software	Summer/Fall 2014	4
Improved infrastructure, Aerohive access points	\$3,473	Support wireless connectivity	Summer 2014	4
Airwatch MDM	\$4,475	BYOD mobile management	Summer 2014	2, 3
Science student computer replacement	\$775 each 33 devices Total: \$25,575	Technology replacement	Summer 2014	4

## **SCHOOL YEAR 2015-2016**

**Goal 1:** To support educators in actively integrating new technologies.

**Curriculum Connections:** Educators will increase exploration and use of technology for instruction in a variety of curricular settings, build capacity with devices, enhancing access to information and opening up opportunities to develop 21st century skills.

**Budget implication:** none at this time

### **Action plan**

- Provide professional development on new technologies, as aligned to needs identified in the 2014 survey

**Goal 2:** To increase access to new technologies and devices supporting the curriculum standards in all content areas

**Curriculum Connections:** Educators will increase exploration and use of technology for instruction in a variety of curricular settings, build capacity with devices, enhancing access to information and opening up opportunities to develop 21<sup>st</sup> century skills

**Budget implication:** none at this time

### **Action plan:**

- Provide professional development for educators on the use and integration of various software and web-based tools to access the curriculum
- Research and purchase mobile devices for use in the classroom
- Research and purchase internet and app resources to enhance instructional repertoire for student learning
- (redundant to the second bullet)

**Goal 3:** To increase feedback to students and parents/guardians, and to communicate more effectively with the broader school community

**Curriculum Connections:** Families will develop a better understanding of long- and short-term initiatives and their purpose.

**Budget Implication:** none at this time

### **Action Plan:**

- Use staff mobile devices to enhance timely parent communication
- Increase ASPEN functionality in areas ranging from communication to use of curriculum road maps and district determined measures (DDMs)

- Utilize video monitor throughout the school to communicate important information to students

**Goal 4:** To determine a technology replacement cycle plan that assures technology is maintained and upgraded

**Budget Implication:** Refer to the chart inserted at the end of this plan

**Action Plan:**

- Review inventory in consultation with the Director of Technology to determine priorities and needs aligned with this Plan

### School Year 2015-2016 Budget Appropriation

<b>Item</b>	<b>Cost</b>	<b>Purpose</b>	<b>Timeline</b>	<b>Alignment to goal</b>
Improved infrastructure, based on assessment of current infrastructure	TBD ~\$5,000	Support wireless connectivity	Summer/Fall 2015	4
Projectors	7 @ \$1,600/each Total: \$11,200	Replace dated projectors	Summer/Fall 2015	1, 2, 4
Computer replacement	\$25,000	Replace dated equipment	Summer/Fall 2015	4
Total	\$41,200			