Pine Hill School Technology Plan Supplement
2017-2018

Based on The Public Schools of Dover and Sherborn
Educational Technology Plan
Future Ready Learning
2016-2021

Welcome to The Future...

Pine Hill Technology Committee
2016-2017
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Introduction

The Public Schools of Dover and Sherborn strive to be “future ready,” where we inspire, challenge and support our students and educators in a global environment where today’s competencies - critical thinking, complex problem solving, collaboration, multimedia communication, managing projects using appropriate digital tools and resources - are at the forefront of teaching and learning.

To accomplish this, we present the Pine Hill School Technology Plan Supplement 2017-2018, based on The Public Schools of Dover and Sherborn Educational Technology Plan: Future Ready Learning 2016-2021. The documents focus on five specific areas: Learning, Teaching, Leadership, Assessment, and Infrastructure. These areas are outlined below and provide a roadmap for our work in 2017-2018.

Led by the Director of Technology, this plan was designed by the 2016-2017 Pine Hill Technology Committee and assesses the current use of technology and outlines future goals. It also provides authentic learning experiences where students are immersed in learning and where educators collaborate to integrate technology to support all aspects of the Dover Sherborn K-12 curriculum.

Note: The Public Schools of Dover and Sherborn Educational Technology Plan is informed by Future Ready Learning: Reimagining the Role of Technology in Education (National Education Technology Plan, January 2016, U.S Department of Education http://tech.ed.gov/netp/.)
Many thanks to those who contributed to the writing of this plan.

Pine Hill School Technology Committee 2016-2017

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION</th>
<th>AFFILIATION</th>
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</thead>
<tbody>
<tr>
<td>Anthony Ritacco</td>
<td>Director of Technology</td>
<td>The Public Schools of Dover and Sherborn</td>
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<tr>
<td>Karen LeDuc</td>
<td>Assistant Superintendent</td>
<td>The Public Schools of Dover and Sherborn</td>
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<tr>
<td>Barbara Brown</td>
<td>Principal</td>
<td>Pine Hill School</td>
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<tr>
<td>Laurie Ryan</td>
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<tr>
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<tr>
<td>Nicole Darrah</td>
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<td>Melissa Feldman</td>
<td>Special Educator</td>
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</tr>
<tr>
<td>Jackie Daley</td>
<td>Assistant Principal</td>
<td>Pine Hill School</td>
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Technology Mission, Vision and Guiding Principles

Mission
To inspire, challenge, and support all students as they discover and pursue their full potential.

Vision
The Public Schools of Dover and Sherborn are committed to providing our students with the best possible education. As a system we seek to identify, implement and maintain best practices in the technology arena to enhance teaching and learning. The use of technology is seamlessly integrated in all aspects of schools’ operations both instructionally and administratively.

We believe that all members of the school community should be able to:

- Use appropriate technology as one of the tools for teaching and learning.
- Have access to appropriate technology throughout the system.
- Use technology to enhance creativity, communication, collaboration, critical thinking, classroom management, differentiation, problem-solving and project-based learning.
- Adhere to the Digital Citizenship and the Internet Acceptable Use Policy and understand the ethical issues related to using technology.

In order to realize this vision, we must continually respond to changes in technology through an ongoing process of review, reflection and evaluation of the effective use of technology. This process includes maintaining a strong technology infrastructure, providing ongoing technical support, and investing in a comprehensive and continuous technology professional development program.

Guiding Principles
Technology is a tool that supports today’s skills including information seeking, analysis, reasoning, problem solving, communication, interpersonal, collaborative, and self-direction.

- Technology supports the diverse learning needs of all students and heightens operational and instructional efficiency among personnel (see Learning and Teaching goals).
- All personnel must be supported in their use of technology with working, up-to-date technology, timely technical support, and continuous, meaningful, high quality professional development and coaching (see Teaching, Leadership, Infrastructure goals).
- Meaningful technology use encourages active, independent, and lifelong learning (see Learning and Teaching goals).

- Technology helps facilitate learning by expanding it beyond the walls of the classroom (see Infrastructure goals).

- Students and all personnel will have access to the tools and technology necessary to fulfill their respective role (see Infrastructure goals).

**Setting the Context**

The Public Schools of Dover and Sherborn Technology Action Plan

Numerous national and state technology planning initiatives have provided a framework for this District Technology Plan and Action Plan and subsequent Pine Hill School Technology Plan Supplement 2017-2018.

The National Education Technology Plan (NETP), January 2016, Future Ready Learning: *Reimagining the Role of Technology in Education*, [http://tech.ed.gov/netp/](http://tech.ed.gov/netp/) sets a national vision and plan for learning enabled by technology through building on the work of leading education researchers. It is framed in the areas of learning, teaching, leadership, assessment, and infrastructure. Our action plan will mirror these areas, with assessment and infrastructure providing the building blocks for teaching, learning and leadership.

The International Society for Technology and Education (ISTE) is the leading professional organization for computer teachers and educational technology leaders. In 2008, ISTE published standards for students, educators, administrators and technology coaches. These standards, while currently under review, have been incorporated into the teaching and learning at Dover Sherborn, see link: [http://www.iste.org/standards/iste-standards](http://www.iste.org/standards/iste-standards). Additionally, ISTE outlines 14 essential conditions to effectively leverage technology for education, [http://www.iste.org/standards/essential-conditions](http://www.iste.org/standards/essential-conditions), which mirror the NETP focal points of shared vision, shared leadership, student centered learning, robust infrastructure and assessment.

The Massachusetts Department of Elementary and Secondary Education (MA DESE), in 2008, published technology literacy standards and expectations for students and educators [http://www.doe.mass.edu/odl/student.html](http://www.doe.mass.edu/odl/student.html) and also published Local Technology Plan Guidelines, [http://www.doe.mass.edu/odl/planning.html](http://www.doe.mass.edu/odl/planning.html), through 2015. The Public Schools of Dover and Sherborn are fully aligned to these documents. A draft of the updated Massachusetts Technology Literacy Standards and Expectations [http://www.doe.mass.edu/odl/student.html](http://www.doe.mass.edu/odl/student.html) was also used in this plan.

Each of these documents informed the District Technology Plan, with the tenets of the NETP framing the Action Plan. Five areas were identified for our focus: Learning, Teaching,
Leadership, Assessment, and Infrastructure. Each is outlined below with an essential question, goals, objectives and an action plan.

I. Learning

*Essential Question: How do we inspire, challenge and support today’s learning?*

*All learners will have engaging and empowering learning experiences in both formal and informal settings that prepare them to be active, creative, knowledgeable, ethical participants in our globally connected society.* (NETP Section 1: Learning)

**Pine Hill School**

**Goal 1:** Design, develop, and implement learning resources to create equitable and accessible learning experiences for all students (NETP Section 1: Learning, bullet 2 and 3, p. 82).

1.a. Use technology to develop critical thinking, complex problem solving, collaboration, and multimedia communication skills, incorporating such in Aspen curriculum documents.

1.b. Investigate learning resources (i.e. as Universal Design for Learning, project-based learning, etc.) to ensure equity and accessibility of the learning experience.

   a.) **Rationale:** Technology can provide easy access to real-world issues and allow students to experiment with virtual solutions that would otherwise be prohibitive. Likewise, technology allows access to collaborators beyond the elementary school and levels the playing field in terms of background knowledge, allowing children to learn independently and as a team from a wide variety of online resources.

   b.) **Action Plan and Benchmarks:**

   i.) November 2017 - Survey PH educators regarding their use of technological tools used and areas of needs

   ii.) March 2018 - Publish a compilation of “go to” technologies

   iii.) April 2018 - Research Universal Design for Learning resources for equitable access and report out at a faculty meeting

   iv.) Note: Reference School Improvement Plan for curriculum integration and Project Based Learning continued goals

   c.) **Budget implication:** None at this time

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<tr>
<th>WHAT</th>
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</table>
| I.1.a Use technology to develop critical thinking, complex problem solving, collaboration, and multimedia | a. Educators will research technologies for use within grade level spans and/or content areas | Apps, software, web-based tools, webinars, workshops and other resources | a. Publish a compilation of “go to” technologies K-12 | a. 2016 - 2017  
  b. 2016-2017  
  c. 2017-2021 |
<table>
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<tr>
<th>Communication skills, incorporating such in Aspen curriculum documents</th>
<th>b. Educators will pilot technologies to determine applicability</th>
<th>b. Research, pilot and publish technologies for use within grade level spans and/or content areas</th>
</tr>
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<tbody>
<tr>
<td>c. Professional development will be provided for all technology and resources</td>
<td>C. Ensure that curriculum documents meet the Guiding Principles (p.1) established in the DS Tech Plan for Future Ready Learning</td>
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<tr>
<td>d. Department / grade levels will work together to revise curriculum and update curriculum maps in Aspen</td>
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**I.1.b. Investigate learning resources (i.e. as Universal Design for Learning, project-based learning, etc.) to ensure equity and accessibility of the learning experience**

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<thead>
<tr>
<th></th>
<th>a. Research and review learning resources</th>
<th>a. Research, review, and pilot identified resources</th>
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<td></td>
<td>b. Develop lesson/unit plans that incorporate learning resources</td>
<td>b. Use the resources to ensure equity and accessibility of the learning experience</td>
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<tr>
<td></td>
<td>a. <a href="http://www.udl.org">Universal Design for Learning</a></td>
<td>a.2016- 2018</td>
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<tr>
<td></td>
<td>b. <a href="http://www.projectbasedlearning.org">Project Based Learning</a></td>
<td>b.2017- 2019</td>
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<td></td>
<td>c. <a href="http://www.openstax.org">Open Educational Resources</a></td>
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<td></td>
<td>d. IT Staff</td>
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<td></td>
<td>e. Building Staff</td>
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II. Teaching

*Essential Question: How do we inspire, challenge and support educators for today’s classroom?*

*Educators will be supported by technology that connects them to people, data, content, resources, expertise and learning experiences that empower and inspire them to provide more effective teaching for all learners. (NETP Section 2 Teaching.)*

**Pine Hill School**

**Goal 1:** Design professional learning opportunities to support and develop educators as fluent users of technology to increase their digital literacy and to create compelling learning experiences that improve learning, assessment and instructional practices; develop creative and collaborative problem solvers; and increase social awareness (NETP Section 2: Teaching bullet 1, p. 83).

   c.) Rationale: Technology takes time to explore, to access a range of resources and select appropriate matches for instruction. Time must be provided for teams to collaborate on technology integration in order to fine-tune curriculum.

   d.) Action Plan and Benchmarks:

   i.) Ongoing - Provide professional development based on needs identified in educator surveys (see Learning, above)

   ii.) Ongoing - Share educator practices at faculty meetings

   iii.) October-November 2017 - Teams of educators will participate in the Ed Tech Teacher and/or MassCue Professional Development Conferences and bring new understandings back to the collective faculty.

   iv.) Ongoing - Look for new learnings incorporated into classroom practice

   e.) Budget implication: None at this time

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| II.1.a. Design professional learning opportunities to support and develop educators as fluent users of technology; creative and collaborative problem solvers; and socially aware professionals | a. Develop educators’ understanding of current research - supported practices and best use of emerging online technologies to support learning  
   b. Incorporate PD for teachers to deliver curriculum content that addresses more student-centered | a. [Tiers of Technology Integration Rubric](#)  
   b. [SAMR Model](#) Substitute, augment, modify, redefine  
   c. Provide models of best practices for teaching and learning | a. Create and implement student-centered learning environments that foster critical thinking, complex problem solving, collaboration, and multimedia communication  
   b. Create and use | 2017-2019 |
### Classroom Experiences

**c. Develop expectations for technology integration in the classroom (that align with available resources) to enhance teaching and learning for all students**

<table>
<thead>
<tr>
<th>II.1.b. Provide educators with professional development experiences to increase their digital literacy and to create compelling learning experiences to improve learning, assessment and instructional practices</th>
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<tr>
<td>a. Offer differentiated professional development throughout the year through a variety of methods (online courses, workshops, individual assistance, weekly technology “tryout” exercises)</td>
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<td>b. Offer ongoing PD in areas of need as based on our tech plan goals</td>
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<td>c. Promote outside conferences and PD to reinforce curriculum goals</td>
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<td>d. Look for opportunities to share, collaborate and investigate outside professionals/experts to visit classrooms and further student learning on specific curriculum topics</td>
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<tr>
<td>e. Provide PD opportunities on Project Based Learning and Universal Design for Learning and other relevant instructional strategies</td>
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| a district-wide searchable database to communicate and share technology-rich, student-centered teaching resources. |

| a. Create compelling learning experiences through Project Based Learning and Universal Design, and other related technologies, as documented in Aspen maps, blogs |

| 2017-2019 |
III. Leadership

**Essential Question:** What role does leadership play in supporting technology to inspire, challenge and support teaching and learning in schools?

**Pine Hill School**

**Goals:**

1) Develop funding models and plans for sustainable technology school-based plans through the technology plan supplement (NETP Section 3: Leadership, bullet 3, p. 84).
   a.) Rationale: A clearly articulated technology plan, facilitated by building and district leadership, in conjunction with with a building-based team affords high level learning opportunities.
   b.) Action Plan and Benchmarks
      i.) September 2016 - Tech Plan Supplement will be crafted with School-Based Technology Committee
      ii.) Quarterly - School-Based Technology Committee will meet to evaluate goals progress and reflect on next steps
   c.) Budget implication
      i.) None at this time

2) Develop clear communities of practice for leaders and educators at all levels that act as a hub for setting vision, understanding research, and sharing practices (NETP Section 3: Leadership, bullet 4, p. 84)
   d.) Rationale: By formulating these communities, there are opportunities to share vision, research and practices through school-based structures such as staff meetings, early release time, and professional learning communities.
   e.) Action Plan and Benchmarks
      i.) October 4, 2016: Technology Committee convened and the Technology Plan Supplement was crafted and reviewed.
      ii.) January 25, 2017: Technology Integration and Staff Showcase scheduled.
   f.) Budget implication
      i.) None at this time

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<tr>
<td>III. Goal 1. Develop funding models and plans, through school-based technology</td>
<td>a. With building-based technology team develop and publish technology plan supplements that</td>
<td>MA Digital Literacy Standards, DS and National Education</td>
<td>a. Update and publish the District Technology Plan and Supplements</td>
<td>2016-2017</td>
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<tr>
<td>plan supplements, for sustainable technology hardware, software, and infrastructure</td>
<td>include action steps, funding sources for sustainable hardware, software and infrastructure</td>
<td><strong>Technology Plan</strong> (NETP 2016) <strong>Massachusetts Curriculum Framework</strong> <strong>DS Tech Plan Supplements</strong></td>
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<td>b. Create a funding model to include action steps, funding sources for sustainable hardware, software and infrastructure that is identified in the Tech Plan Supplements</td>
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<tr>
<th>III. Goal 2. Develop clear communities of practice for leaders and educators at all levels that act as a hub for setting vision, understanding research, and sharing practices</th>
<th>a. Convene building-based technology leadership team, inclusive of administrators and educators to set vision, understand research and share practices</th>
</tr>
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<tr>
<td>b. Establish building-based cohesive communities of practice to create cycles for sharing most recent research and effective practices</td>
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<tr>
<td>a. A consistent calendar of technology-related meetings with educators, tech specialists and administrators</td>
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<td>b. Ongoing PD</td>
<td>a. Ensure that the Tech Plan and Supplements are working, up-to-date and viable to the teaching and learning community.</td>
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<td>b. Enable teachers and students to enhance technology skills for effective teaching and learning.</td>
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IV. Assessment

Essential Question: How do we continue to improve assessments using the data effectively and appropriately to communicate what students know and are able to do?

Pine Hill School

Goals:

1.) Create and implement technology based assessments across all disciplines. (NETP Section 4: Assessment, bullet 4, p. 85)
   a.) Rationale: Using technology will provide educators with “in real time” data on student learning
   b.) Action plan and Benchmarks:
      i.) May 2017: Use the Next Generation MCAS in spring 2017 to explore digital methods of assessment. The state requires that all math and ELA tests for grades 3, 4 and 5 be administered digitally in 2018.
      ii.) Ongoing: Pine Hill Technology Committee members will explore and share out new resources and applications.
      iii.) Ongoing: Grade level teams will include technology tools when designing authentic assessments that measure student learning across disciplines and within units, beginning with Science Units of Study
   c.) Budget implication: None at this time

2.) Implement models of assessment that include ongoing gathering and sharing of data for continuous improvement of teaching and learning, while updating privacy practices and policies to ensure protection of student information. (NETP Section 4: Assessment, bulletin 1, p. 84)
   a.) Action Plan and Benchmarks:
      i.) Ongoing: Use PLC/FAC inquiry time to explore more frequent and effective use of existing digital data by educators who are collaborating to increase student achievement.
   b.) Budget implication: None at this time

3.) Design, develop and implement communication pathways that give students, educators, families and other stakeholders timely and actionable feedback about student learning to improve achievement and instructional practices. (Aspen, Google, eblasts, Apps for assessment, Social media, etc.) (NETP Section 4: Assessment, bullet 3, p. 84)
   a.) Action plan and Benchmarks:
      i.) Ongoing: Expand data meetings, by using the model for Literacy Benchmark Data meetings already in place to establish similar examinations of data driven by teams of educators.
ii.) Summer 2017: Determine applicability of *School Messenger* app for families

iii.) Ongoing: Continued use of SDM-School Dismissal Manager for home to school communication

b.) Budget implication: None at this time

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<th>WHAT</th>
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<th>TIMELINE</th>
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</table>
| IV. Goal 1. Create and implement technology based assessments across all disciplines | a. Convene teams of educators to determine and administer common measures  
   b. Document common measures in curriculum maps  
   c. Expand the use of ongoing, formative, and embedded assessments  
   d. Record and communicate formative and summative data through various apps and software in the classroom  
   e. Provide ongoing support and training to strengthen teachers skills in how to interpret data to better meet students needs | **MSPA**  
How to information:  
Other district examples of DDM  
Actual assessments:  
1. Teacher-created assessment  
2. Aspen or Google  
3. Approved apps and online tools, see software map | a. Publish online lists, accessible to teachers, of all approved software apps and online tools  
b. Create a process for teachers to request or suggest new apps or online tools to be added to the approved list.  
c. Ongoing updated common measures in all curriculum maps.  
d. At least one PD workshop per academic year which includes at least one component of training on the use of an assessment app or online tool, or on the interpretation of student data | 2016-2018 |
| IV. Goal 2. Implement model of assessment that includes ongoing gathering and sharing of data for | a. Implement Massachusetts Student Privacy Alliance(MSPA)  
   b. Work collaboratively with administration and | **MSPA**  
Sample: See Wayland’s approach, with very helpful links | a. Revisit and revise, as needed, Acceptable Use Policy (AUP) to include a district | 2016-2018 |
<table>
<thead>
<tr>
<th>Continuous improvement of teaching and learning, while updating privacy practices and policies to ensure protection of student information</th>
<th>Technology department to assure secure environment within the school building</th>
<th>Policy statement on student privacy</th>
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<tbody>
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<td></td>
<td>c. Provide professional development for educators and information for families around privacy and information protection</td>
<td>b. Publish webpage, accessible to parents and staff, with statement of district policy on student privacy, including a list of relevant web resources</td>
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<td>c. Clear statement of district policy on student privacy in each individual school’s handbook</td>
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<tr>
<td>IV. Goal 3. Design, develop and implement communication pathways that give students, educators, families and other stakeholders timely and actionable feedback about student learning to improve achievement and instructional practices</td>
<td>a. Research and implement a variety of communication tools to provide feedback, i.e. Aspen, Google</td>
<td>a. Publish instructional document on accessing the Aspen portal for families</td>
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<td></td>
<td>b. Provide professional development for educators to implement the communication tools to provide feedback</td>
<td>b. Publish instructional document on accessing student Gmail accounts</td>
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<td>c. Provide information to families on how to use the communication tools</td>
<td>c. Publish instructional document on accessing</td>
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<tr>
<td>d. Publish instructional documents on any other relevant technologies used for student feedback or family communication</td>
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V. Infrastructure

Essential Question: How do we ensure that technology integration inspires, challenges and supports the academic community?

Pine Hill School

Goals

1.) Ensure that students and educators have broadband access to the Internet and adequate wireless connectivity (NETP Section 5: Infrastructure, bullet 1, p. 85).
   a.) Action plan and benchmarks:
      i.) Ongoing: Monitor and upgrade speed as necessary.
   b.) Budget implication: None at this time.

2.) Ensure that every student and educator has access to at least one internet access device and appropriate software and resources for research, communication, multimedia content creation, and collaboration for use in (and out of) school (NETP Section 5: Infrastructure, bullet 2, p. 85)
   a.) Rationale: As educators use more technology, we note an increased need for “in the moment” use of devices.
   b.) Action plan and benchmarks: Summer 2017: continue with the replacement cycle over summer
   c.) Budget implication: See chart below

3.) Support the development and use of openly licensed educational materials to promote innovative and creative opportunities for all learners and accelerate the development and adoption of new open technology-based learning tools and courses (NETP Section 5: Infrastructure, bullet 3, p. 85)
   a.) Action plan and Benchmarks:
      i.) Ongoing: Explore, pilot and share innovative and creative opportunities for learners during the school year, at scheduled meetings with the Pine Hill Technology Committee and the Pine Hill staff, highlighting needs for the 2018-2019 school year
   b.) Budget implication: None at this time

4.) Draft and implement sustainable plans for infrastructure, hardware and software concerns that include upgrades of wired and wireless access as well as device refresh plans and sustainable funding sources while ensuring the safety and protection of student data (NETP Section 5: Infrastructure, bullet 5, p. 86)
   a.) Rationale: The existing replacement plan, as outlined and maintained by the Director of Technology, highlights the current needs as associated with outdated technology
b.) Action plan and benchmarks: **Outlined in the replacement plan: see chart at the end of this document**

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<th>TIMELINE</th>
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</table>
| V. Goal 1. Ensure that students and educators have broadband access to the Internet and adequate wireless connectivity | a. Monitor bandwidth speeds and upgrade when necessary.  
b. Monitor and upgrade all wireless connectivity as needed.  
c. Provide and maintain a redundant ubiquitous high speed connection to both wired and wireless internet. | a. IT Staff  
b. Educators and Tech Specialists  
c. Apps and softwares | a. Continue to stay current with the latest network and broadband speeds.  
b. Maintain at least 200 MB of speed to the internet.  
c. Maintain at least 1 GB of speed internally and 10GB from IDF’s to MDF. | a. 2016 and ongoing  
b. 2016-2017  
c. 2018-2019 |
| V. Goal 2. Ensure that every student and educator has at least one internet access device and appropriate software and resources for research, communication, multimedia content creation, and collaboration for use in (and out of) school | a. Research models, i.e. BYOD, 1:1, school-based devices, to ensure that every student and educator has at least one internet device and appropriate software and resources needed  
b. Upgrade and maintain Acceptable Use Policy (AUP)  
c. Investigate take home technology for student use | a. IT Staff  
b. Educators and Tech Specialists  
c. Airwatch reporting  
d. Tech Plan Supplements  
e. **Affordable Internet & computer** | a. Conduct research on models, by building, to determine appropriate solutions  
b. Inventory all devices  
c. Budget for additional technologies, as needed | a. 2016-2017  
b. 2016-2021 (ongoing)  
c. 2016-2021 |
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<tr>
<th>V. Goal 3. Support the development and use of openly licensed educational materials to promote innovative and creative opportunities for all learners and accelerate the development and adoption of new open technology-based learning tools and courses</th>
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</table>
| a. Research and use the best open source softwares for curriculum deployment.  
    b. Continue to develop and use the software map developed for each school.  
    c. Continue to use the Massachusetts Student Privacy Alliance to ensure the applications students use are safe and protected. |
| a. IT Staff  
    b. Educators and Tech Specialists  
    c. MSPA |
| a. Create a process for teachers to request or suggest new apps or online tools to be added to the approved list.  
    b. Continue to update the software map for each district. |
| a. 2016-2017  
    b. 2016-2021 |

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<th>V. Goal 4. Draft and implement sustainable plans for infrastructure concerns that include upgrades of wired and wireless access as well as device refresh plans and sustainable funding sources while ensuring the safety and protection of student data</th>
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</table>
| a. Continue with building-based hardware replacement cycle to ensure all devices stay up to date  
    b. Update comprehensive map and database of connectivity, device access, use of open licensed educational resources, and their uses across the country |
| a. Tech Plan Supplements  
    b. IT Staff  
    c. MSPA |
| a. Use the MSPA website to ensure that all apps have been vetted. |
| a. 2016-2021 |
## Pine Hill School

### School Year 2017-2018 Budget Appropriation

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<thead>
<tr>
<th>Item</th>
<th>Cost</th>
<th>Purpose</th>
<th>Timeline</th>
<th>Alignment to Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Desktop Computers</td>
<td>26 @ $450</td>
<td>Replace Outdated Computer lab</td>
<td>Summer 2017</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>$11,700</td>
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<tr>
<td>Laptops and Docking Stations</td>
<td>20@$1000</td>
<td>Complete Teacher Desktop Replacements</td>
<td>Summer 2017</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>$20,000</td>
<td></td>
<td></td>
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<tr>
<td>Interactive Projectors</td>
<td>4 @ $2,200</td>
<td>Replace Outdated IWB’s</td>
<td>Summer 2017</td>
<td>4</td>
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<tr>
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<td>$8,800</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$40,500</strong></td>
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ADDENDUM
TECHNOLOGY AVAILABILITY BY GRADE LEVEL

Grades K-2

55 iPad minis shared among classrooms (added 10)
2 Student desktop computers in each 1st and 2nd grade room Interactive whiteboard and projector in each classroom
1 Teacher laptop per classroom
1 Apple TV and document camera in each room

Grades 3

40 iPads. Split up between the classrooms. (ADDED 10)
Laptop cart for grade 3 = 23 Devices (moved from 4-5)
2 Student desktops computers in each classroom Interactive whiteboard and projector in each classroom 1 Teacher laptop per classroom
1 Apple TV and document camera in each room

Grades 4-5

2 Chromebook cart (upper)= 47 Devices
1 Chromebook cart (lower)= 23 Devices
2 Chromebook cart. 1 Replaced old Netbook cart.
1 Student desktops computers in each 4th and 5th grade room Interactive whiteboard and projector in each classroom
1 Teacher laptop per classroom
1 Apple TV and document camera in each room

Shared with whole school

1 Computer lab with 28 desktops iPad Cart = 20 devices (these were distributed to classrooms)
iPod Cart = 25 Devices
Apple TV in the library
12 Desktop computers in the library