

# Marshfield Public Schools Technology Plan 2016-2019



## Committee Members:

David Cawthorne, Director of Technology  
Jason Soslow, Coordinator of Instructional Technology  
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Amy Fultz, Elementary Assistant Principal  
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## **Mission Statement:**

The Marshfield Public School system acknowledges the importance of preparing students with the necessary skills to find success in society. Our goal is to use technology as a tool to improve teaching, academic learning, and lifelong learning. We are committed to providing access to varied technologies and instructional practices that will allow our teachers to transform classroom practices and students to prepare for their futures. In order to prepare students for the future, opportunities must be available for students to use a variety of technologies to engage with an integrated curriculum that provides opportunities to retrieve and process information, solve complex problems, work alone and collaboratively to communicate locally, nationally, and worldwide while developing higher-order thinking skills. MPSD recognizes the need to promote and support authentic and meaningful uses of technology which will empower our students to succeed in a complex and changing society.

## **Action Plans SY16-SY19:**

**Overview:** As you review this plan, please keep in mind that focusing on specific technologies or products may be the wrong approach to future-proofing our K-12 technology. We encourage faculty and administrators to take the time to examine their teaching pedagogy and how it can be used to drive technology implementation. While technology is always evolving, it's not only the technology that should drive investment. Thoughtful integration of technology in our schools can help students become responsible, active, independent, lifelong learners in a complex digital society.

**Plan Duration:** This Technology Plan will be in effect for a period of four years, from July 1, 2015 through June 30, 2019. The plan outlines a framework, belief statements, SMART goals, action plans, standards and funding sources based on the four-year period. The effectiveness of the plan will be monitored and evaluated as stated in each goal.

**Funding Sources:** All initiatives are dependent on available funding. Initiatives not funded in the designated year will be pushed to the following year.

**Personalized Learning Devices:** To maintain consistency we have determined the following recommended devices for the grade levels listed below.

- PreK-2 iPads
- Grades 3-12 : Chromebooks



## STUDENT LEARNING

*Support students' technology needs as they develop their passion for learning and future ready skills.*

**Funding Sources:** Operational Budget, Capital

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Increase availability of personalized learning devices in all K-12 classrooms.	<p>Pilot: K-8 Develop Best Practices</p> <p>Deploy Chromebooks to all MHS students for use at school and home.</p>	<p>Grade 5 = Add 1 cart/ school = \$45,000</p> <p>FBMS = Add 2 classroom carts \$18,000</p>	<p>Grade 4 = Add 1 cart/ school = \$45,000</p> <p>Grade 2 = Add 1 cart/ school = \$45,000</p> <p>FBMS = Add 2 classroom carts \$18,000</p>	<p>Grade 3 = Add 1 cart/ school = \$45,000</p> <p>Grade 1 = Add 1 cart/ school = \$45,000</p> <p>FBMS = Add 2 classroom carts \$18,000</p> <p><b>MHS 1:1 Refresh</b></p>	Improvement of instructional practices to challenge and support all students
Increase student opportunity to communicate, collaborate, present and organize using a Learning Management System such as Google Classroom/Canvas.	<p>Pilot Middle School Canvas/Google Classroom</p> <p>Pilot Elementary Google Classroom in Grade 5</p> <p>Introduce Canvas communication &amp; collaboration tools (Discussion, Chat, and Collaboration &amp; Conferences) to MHS faculty &amp; students.</p>	<p>Expand Canvas access to 6-8 Staff and students and create opportunities for students in this online environment. \$6000.00</p> <p>Expand LMS Opportunities: Google Classroom &amp; Canvas to Grade 5</p>	<p>Continue to expand HS and MS implementation of Canvas \$6000.00</p> <p>Introduce Google Classroom to grade 4</p> <p>Continue Expand LMS Opportunities: Google Classroom &amp; Canvas to Grade 4-5</p>	<p>Continue to expand HS and MS implementation of Canvas</p> <p><b>Budget for Canvas renewal</b></p> <p>Introduce Google Classroom to Grade 3</p> <p>Expand LMS Opportunities: Google Classroom &amp; Canvas to Grade 3-5</p>	Improvement of instructional practices to challenge and support all students

## PROFESSIONAL PRACTICE

*Support teaching practices connecting data, content, resources, expertise and learning experiences to better meet the needs of all students.*

**Funding Sources:** Operational Budget

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Develop and offer online Professional Development materials and training through Learning Management Systems for all staff.	Pilot select Professional Development Courses in Canvas	Increase opportunities for staff to participate in Canvas based professional development and training. <b>Increase PD Funding</b>	Continue to increase opportunities for staff to participate in Canvas based professional development and training. <b>Increase PD Funding</b>	Continue to increase opportunities for staff to participate in Canvas based professional development and training. <b>Increase PD Funding</b>	Improvement of instructional practices to challenge and support all students
Increase instructional technology staffing to support district teaching and learning initiatives.	No Action	No Action	Add additional Technology Integration Specialist K-5	Add additional Technology Integration Specialist K-5	Improvement of instructional practices to challenge and support all students.

## CULTURE

*Enhance and support learning environments that encourage the infusion of technology throughout all facets of schools.*

**Funding Sources:** Operational Budget, Risk Taking

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Develop and implement a shared vision for how technology can support a student-centered approach to learning and how to secure appropriate resources to sustain technology initiatives.	Encourage and support faculty & administrators to reexamine pedagogy and decision making to ensure students are future- ready	Encourage and support faculty & administrators to reexamine pedagogy and decision making to ensure students are future- ready.	Encourage and support faculty & administrators to reexamine pedagogy and decision making to ensure students are future- ready.	Encourage and support faculty & administrators to reexamine pedagogy and decision making to ensure students are future- ready	Improvement of instructional practices to challenge and support all students.

## EQUITY & ACCESS

*Provide access to families and the community to support student learning.*

**Funding Sources:** Operational Budget

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Migrate to a new school and district website platform to facilitate a communication of a broader range of content and more up to date information.	Website redesign: Migrate from Edline to Schoo IWires: Spring 16'	Launch redesigned district website July 1  Migrate classroom webpages into Canvas public pages and provide training to classroom teachers.	Continue to maintain website as an effective communication tool.	Continue to maintain website as an effective communication tool.	Optimize communication at all levels  Create reciprocal opportunities for partnerships between community & school services.
Continued integration of Aspen Student Information System to maximize efficiency and communication of all academic and administrative processes.	Implement Aspen Standards Based Report Cards K-5	Distribute all report cards electronically  Explore functionality for updating parent contact information as well as online athletic registration.	Continue to explore ways to maximize efficiency and communication of all academic and administrative processes.	Continue to explore ways to maximize efficiency and communication of all academic and administrative processes.	
Evaluate current levels of student access to technology resources in their homes and develop possible district initiatives to increase access and promote equity, if necessary.	No Action	Develop and implement a student survey of offsite access to technology resources.	Form a committee to explore options with community stakeholders to enhance the scope of offsite access.	Continue to evaluate options for offsite access to technology resources.	

# INFRASTRUCTURE

Provide and maintain reliable infrastructure that supports daily teaching and learning

Funding Sources: Capital

Goal	SY16	SY17	SY18	SY19	District Improvement Plan Goal
Increase interoperability between all data systems		<i>Migrate all Staff to Google Mail &amp; Google Apps for Education</i>			Improvement of instructional practices to challenge and support all students.
Procure and deploy classroom presentation systems K-8 that model the HS blueprint.		Grade 8 & FBMS Labs = Installation of 20 presentation systems \$70,000  Grade 7 = Installation of 25 presentation systems \$87,500  Grade 5 = Installation of 18 presentation systems \$72,000	Grade 6 = Installation of 20 presentation systems \$70,000  Grade 4 = Installation of 18 presentation systems \$72,000  Grade 3 = Installation of 18 presentation systems \$72,000	Grade 2 = Installation of 18 presentation systems \$72,000  Grade 1 = Installation of 18 presentation systems \$72,000  Grade K = Installation of 15 presentation systems \$60,000	Improvement of instructional practices to challenge and support all students.
Implement security measures to ensure our schools are safe and secure.		Capital request for security cameras and card access systems. \$250,000	Continue to maintain and expand security infrastructure.	Continue to maintain and expand security infrastructure.	Maximize the potential of students, staff, parents and community through effective leadership and operations.
Computer hardware and software replacement cycles that meet the needs of all learners.	No Action	Capital request of \$100,000 for Computer Replacement	Capital request of \$100,000 for Computer Replacement	Capital request of \$100,000 for Computer Replacement  <b>MHS 1:1 Refresh of Devices</b>	Maximize the potential of students, staff, parents and community through effective leadership and operations.

## Financial Review

<b><u>SY17</u></b>		<b>Anticipated Cost</b>	
Grade 5 Chromebook Carts	5 Carts @ \$9,000	\$45,000	
FBMS 2 Chromebook Carts	2 Carts @ \$9,000	\$18,000	
Grade 8 & FBMS Computer Lab Projection Systems	20 Projectors @ \$3500	\$70,000	
Grade 7 Classroom Projection Systems	20 Projectors @ \$3500	\$70,000	
Grade 5 Classroom Projection Systems + Electrical	18 Projectors @ \$4000	\$72,000	
Classroom Computer Replacement		\$100,000	
			\$375,000

<b><u>SY18</u></b>		<b>Anticipated Cost</b>	
Grade 4 Chromebook Carts	5 Carts @ \$9,000	\$45,000	
Grade 2 Chromebook Carts	5 Carts @ \$9,000	\$45,000	
FBMS 2 Chromebook Carts	2 Carts @ \$9,000	\$18,000	
Grade 6 Classroom Projection Systems	20 Projectors @ \$3500	\$70,000	
Grade 4 Classroom Projection Systems + Electrical	18 Projectors @ \$4000	\$72,000	
Grade 3 Classroom Projection Systems + Electrical	18 Projectors @ \$4000	\$72,000	
Classroom Computer Replacement		\$100,000	
			\$422,00



## Financial Review

<b><u>SY19</u></b>		<b>Anticipated Cost</b>	
Grade 3 Chromebook Carts	5 Carts @ \$9,000	\$45,000	
Grade 1 iPad Carts	5 Carts @ \$9,000	\$45,000	
FBMS 2 Chromebook Carts	2 Carts @ \$9,000	\$18,000	
Grade 2 Classroom Projection Systems + Electrical	18 Projectors @ \$4000	\$72,000	
Grade 1 Classroom Projection Systems + Electrical	18 Projectors @ \$4000	\$72,000	
Grade K Classroom Projection Systems + Electrical	15 Projectors @ \$4000	\$60,000	
Classroom Computer Replacement		\$100,000	
			\$412,000