



# King Philip Regional School District



## TECHNOLOGY PLAN

2012 - 2016

DRAFT

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Four-digit LEA Code: 0069

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THE KING PHILIP REGIONAL SCHOOL DISTRICT PROVIDES EQUAL EDUCATIONAL OPPORTUNITIES WITHOUT REGARD TO RACE, COLOR, SEX, RELIGION, NATIONAL ORIGIN, SEXUAL ORIENTATION, AND DISABILITY.

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## TECHNOLOGY COMMITTEE MEMBERS

<b>Administration</b>	William Chaplin
<b>Technology Staff</b>	Sean Bouzan – Director of Technology Michael Bois – Network Administrator Justin Flynn – Help Desk Manager Patricia Olen – Data Specialist Domenic Sergio – Help Desk Technician
<b>Teachers</b>	Joseph Ferreira – KPHS - History & Social Sciences Susan Hall – KPMS Science
<b>School Committee</b>	Jeff Chalmers

## SCHOOL COMMITTEE MEMBERS

Ann-Marie Martin – Plainville (Chair)	Dr. Anna Tupper – Wrentham
Michael Gee – Norfolk (Vice Chair)	Dr. Wendy Robeson – Norfolk
Patrick Francomano – Plainville	Edward Goddard – Wrentham
Charlene McEntee – Plainville	Jim Killion – Wrentham
Jeff Chalmers - Norfolk	

## KING PHILIP REGIONAL SCHOOL DISTRICT TECHNOLOGY VISION & MISSION

The King Philip Regional School District Technology Plan contains goals and strategies that align with the District Strategic Plan and the District School Improvement Plan. These documents are posted on the King Philip Regional School District’s (KPRSD) website ([www.kingphilip.org](http://www.kingphilip.org)).

### **King Philip Technology Mission Statement**

Through the integration and access of technology in the King Philip School District, we seek to develop 21<sup>st</sup> century citizens who can communicate, collaborate, think critically and participate in group decision-making providing for the contribution to local, national and global communities.

### **King Philip Technology Vision Statement**

KPRSD will have transformed learning environments through the integration of technology. Our vision includes the full integration of technology and the Common Core of Learning to facilitate learning by enabling students and staff to become proficient users, and appliers who have the ability to access, create, process and communicate information.

In envisioning the future, we are committed to the following principles:

- Use technology to improve the administration of schools by providing administrators and staff access to the information and the resources they require to make complex instructional and administrative decisions.
- Provide universally designed technology across grade levels, within and beyond subject

- areas, for all diverse student populations.
- Develop communications via electronic media for student-to-student, teacher-to-teacher, faculty-to-parents and school-to-school.
- Apply current and relevant technologies in the classroom to improve learning and to allow students to succeed in the global community.
- Investigate real-life problems efficiently and effectively analyze solutions.
- Provide support and tools to stimulate integration and use of new technologies through exposure, professional development and on-going development of proficiencies.

## **TECHNOLOGY STANDARDS**

### **STUDENTS AND TECHNOLOGY**

- Creativity and Innovation
- Communication and Collaboration
- Research and Information Fluency
- Critical Thinking, Problem Solving, and Decision Making
- Digital Citizenship
- Technology Operations and Concepts

### **TEACHERS AND TECHNOLOGY**

- Facilitate and Inspire Student Learning and Creativity
- Design and Develop Digital-Age Learning Experiences and Assessments
- Model Digital-Age Work and Learning
- Promote and Model Digital Citizenship and Responsibility
- Engage in Professional Growth and Leadership

### **ADMINISTRATORS AND TECHNOLOGY**

- Visionary Leadership
- Digital-Age Learning Culture
- Excellence in Professional Practice
- Systemic Improvement
- Digital Citizenship

*\*\*These standards are taken from the International Society of Technology in Education Standards and Performance Indicators for Students, Teachers and Administrators.*

## **TECHNOLOGY IN THE SCHOOLS**

### **OVERVIEW OF THE TECHNOLOGY PLANNING PROCESS**

Technology planning and implementation occurs in tandem between collaboration with our users, CTL's, Administration and our technology committee. Our committee includes representatives from a variety of stakeholder groups such as administration, teachers, technology staff and community members. This group collaborates on new initiatives in technology integration and investigates new technologies each year to determine the possible use of these new technologies in the district.

The Technology Committee meets to review the initial plan, make modifications, enhance and update the plan. The technology plan forecasts and documents new ideas for the next three years. We hold regular meetings each year for continued review and updates to the plan as needed in order for our plan, stay current and provide proper support.

Planning will include an awareness and adherence to the Massachusetts State Technology Plan, the National Education Technology Plan and the International Society of Technology in Education (ISTE) standards. We will work toward maintaining these standards and maintain the proper reports annually to the state to show our continued progress.

## **SOFTWARE PRIORITIES**

### **ADMINISTRATIVE AND MANAGEMENT**

The administrative computing system supports the operation of the school system. This information is used in the daily operation and thus allows for good planning and future appropriate assessment of the efficacy of programs. The District and School offices use Budget Sense for accounting and human resource databases. The technology department uses Help Star to manage software licensing and hardware across the district as well as work order placement and tracking. The Technology Staff use School Vue to administer remote support District wide.

The Department of Elementary & Secondary Education requires data reports three times per year (October, March, June). These reports include Student Information Management System (SIMS), Educational Personnel Information Management System (EPIMS) and School Course Schedules (SCS). To produce these reports, data is gathered via Information Marketing Groups (IMG) iPass Software.

iPass's web based program is used for report cards, health records, attendance, professional development activities, discipline records and permanent student record information. The Connect Ed web based program is used to call parents and staff with important notifications.

Classroom needs are met on an individual, departmental and a grade level basis. All classroom teachers have Microsoft Office Suite and Outlook. All schools have access to School Fusion and iPass providing teachers with the opportunity to have classroom web pages to enhance communication between school and home.

Rubicon's Atlas Curriculum Mapping software is used by our Faculty and Administration to manage, plan and assist in meeting our curriculum goals.

Datametric's Test Wiz Software is used by our Faculty to scan and analyze student performance in conjunction with the DESE's Edwin Analytics Data Warehouse.

Eutactic's Semstracker is used by our Special Education department to create, track and manage the needs of our students including Individual Education Plans (IEP).

## COMMUNICATIONS AND INFORMATION ACCESS

The district provides Internet via LAN and Wireless connectivity to 100% of classrooms for grades 7-12 as well as administrative offices. Our LAN speeds are 1GB to the endpoint device and a 10GB core backbone. KPRSD's Internet Service Provider, Comcast provides bandwidth of 100/100mb District wide.

King Philip Schools are compliant with the Children's Internet Protection Act (CIPA). Each school has an Internet filter that complies with CIPA. All student user accounts use content filtration software which blocks categories deemed inappropriate by the Administration. Amendments to the district's filtered sites are brought to the administration for review and discussion. Faculty and Staff are moderately filtered, giving them access to many instructional resources that they can determine if they are appropriate for integration into their curriculum.

The district provides for a web site using Edline's School Fusion Site. All staff are listed by their employment locations on the KPRSD website. (<http://www.kingphilip.org>)

## INSTRUCTIONAL AND CURRICULAR

Our goal is to ensure that our educators will be trained, supported in teams and individually by technology that connects them to data, content, resources, expertise, and learning experiences that enable and inspire more effective teaching for all learners.

The district will continue to evaluate new software in areas that include the following:

- Curriculum integration tools
- Performance assessment services
- Instruction and learning management
- Multimedia authoring programs
- Web based programs
- Online learning & collaboration

## HARDWARE, FACILITIES AND NETWORK PRIORITIES

### HARDWARE

- Desktop/laptop computers replacement (Staff, computer carts and labs)
- B.Y.O.T (Bring your own technology)
- Interactive White Boards
- Projection devices
- Portable Devices (Wireless Tablets, E-Readers & Netbooks)
- Student Response Systems
- Digital cameras
- Video Cameras
- Printers
- Scanners
- Document Cameras

### FACILITIES: NETWORK DESIGN

- 24 physical servers moved to 2 Virtual servers (2 physical servers left)
- Backup virtualization
- Maintain virus, malware and spam protection
- Increase network security via expansion of Network Access Controller (NAC)

- Increase access via Web Portal

#### BUILDING AND CLASSROOM WIRING STANDARDS

- Maintain suitable bandwidth of wireless and hard lined
- Mount projection and sound systems in classrooms and common areas.

#### IMPLEMENTATION ISSUES

- Increase budget amounts to continue to support and increase technology availability.
- Increase technology support staff to adequately support and expanding technology systems.
- Increase Technology Integration staff in each building.

### **OPERATIONS, MANAGEMENT AND UPGRADE PRIORITIES**

In all classrooms, teachers are responsible for the daily operation of classroom computers. Hardware/Software and is the responsibility of the KPRSD Technology Department's Help Desk Technicians. The Network Administrator is responsible for maintaining our network (LAN/WAN), district servers, security, backups and administering the access to the KPRSD network. State Reports, Data Management are the responsibility of the Data Specialist. The Director of Technology is ultimately responsible for the planning, management, and coordination of maintenance, upgrades and training of all KPRSD educational technologies.

### **PROFESSIONAL DEVELOPMENT PRIORITIES**

King Philip Regional School District provides technology professional development to its staff annually as well as providing continued support and coaching. The district offers year-round technology professional development opportunities that address the individual curriculum needs of our teaching staff as well as personal and professional tools. These include workshops (in-house and out-of-district), out-of-district conferences/courses, cross-district observations, college courses, serving on committees, mentoring program, externships, summer content institutes, presenting workshops and the new teacher mentor program. Administrators, teachers and support staffs are able to select training opportunities that they believe will enhance their professional performance. Other technology training initiatives have been required of staff in order to implement technology integration and new practices in a consistent way.

King Philip School District will adopt the Massachusetts Department of Elementary and Secondary Education's recommendations to ensure that professional development helps educators use technology to improve student learning:

- Professional development should include strategies that will improve the academic achievement of ALL students (regardless of race, ethnicity, income, geographical location, or disability).
- Professional development should build capacity among the district's own staff so that they can train their colleagues.
- Professional development needs to be provided over an extended period of time, with sufficient time for teachers to plan new activities, try new things, and reflect on the outcomes.
- Technology professional development should prepare teachers to help students gain technology skills while learning the content of the curriculum.
- Teachers need to be able to assess their technology skills so that they can seek the professional development they need.

- Technology needs to be available, accessible, and reliable both during and after the professional development, so that teachers can implement what they have learned.

## STAFFING PRIORITIES

Our goal is to provide the support that teachers need in order to use technology to improve student learning. King Philip School District will reassess the current staffing model used throughout the district and strive to meet the recommendations made by the Massachusetts Department of Elementary and Secondary Education (DESE).

- School-based support should include technical support to keep the equipment running and deal with down time while supporting teachers in their use of the many technological tools available.
- Schools should consider what staffing models will best provide school-based support to teachers.
- There must be a comprehensive administrative support in the schools in order to maximize the benefit from technologies – including assistive technologies.

## TECHNOLOGY IMPLEMENTATION ACTION PLAN

### 1.0 - SOFTWARE PROCUREMENT

The goal of the King Philip School District is to provide appropriate software to meet the technological needs of all students and staff. This will include the need to ensure universal design in education by using instructional tools, materials, and methods that remove barriers to learning, making it possible for all students to succeed.

#### 1.1 Goal: Implement a Web Based Solution for District and School Web Sites

Initiative	Leadership	Timeline
Research, train and implement web based solution for web site. EDLINE-School Fusion	Sean Bouzan, Web Master	2012-2015

#### 1.2 - Goal: District Curriculum Mapping Project

Initiative	Leadership	Timeline
Rubicon International - Atlas Curriculum Mapping software	Dr. Susan Gilson, Sean Bouzan,	2012 - 2016



**1.3 Goal: Research Virtualizing (VDI) vs Web Portal**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Research and determine which opportunities will best meet the districts needs for accessing email, applications and storage (i.e. Google Apps, Live@Edu, stoneware, classlink and VM)	Sean Bouzan, Technology Staff, Justin Flynn, Michael Bois, Domenic Sergio, Patricia Olen	2012 - 2016

**1.4 Goal: Upgrade HVAC Control System (Middle School)**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Research the upgrade of the HVAC management system for the HVAC system and install. Johnson Controls - Metasys	Paul Schaefer, Mark Belanger, Sean Bouzan	2013 - 2014

**1.5 Goal: Research Teacher Evaluation Software – Teach Point**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Research and determine which opportunities will best meet the districts needs for DESE mandated teacher evaluation software. Clear Pond Technologies - TeachPoint	Dr. Susan Gilson, Dr. Elizabeth Zielinski, Dr. Lisa Oliveria, Dr. John Gould, Robert Lyons, Sean Bouzan, Adam Gentili, Nancy Fischer, Lindsey Haynes, Doug Fayle	2012 - 2016

**1.6 Goal: Research Office 365 – Microsoft**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Research and determine which opportunities will best meet the districts needs for using Microsoft products via “The Cloud” (i.e. Word, Excel, Powerpoint, Outlook Email, etc.) **Storage & Archiving included	Dr. Susan Gilson, Dr. Elizabeth Zielinski, Dr. Lisa Oliveria, Dr. John Gould, Robert Lyons, Sean Bouzan, Michael Bois, Justin Flynn	2013 - 2016

**1.6 Goal: Research Virtual Textbooks**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Research and determine the best resource for online textbooks.	Dr. Susan Gilson, Dr. Elizabeth Zielinski, Dr. Lisa Oliveria, Dr. John Gould, Robert Lyons, Sean Bouzan, Michael Bois, Justin Flynn	2013 - 2016

**2.0 - HARDWARE, FACILITIES, AND NETWORK ACQUISITION /IMPLEMENTATION**

**2.1 Goal: Research and install a Network Access Controller**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Test and finalize Network Access Controller to secure the KPRD network and provide access in preparation for a BYOT program.	Michael Bois, Sean Bouzan, Justin Flynn	2012-2016

**2.2 Goal: Virtualization of District Servers**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Virtualization of 22 Physical Servers to 2	Michael Bois, Justin Flynn, Sean Bouzan	Completed 2013

**2.3 Goal: Research Voice over Internet Protocol (VOIP) telephone systems**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Research VOIP based Phone System costs and benefits to the district.	Sean Bouzan, Paul Schaefer, Michael Bois	2013 - 2015

**2.4 Goal: High School – add 4 Mobil Labs**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Purchase and Deploy 2 Netbook Cart Mobil Labs to supplement the conversion of Labs to classrooms.	Dr. Lisa Oliveira, Sean Bouzan, Justin Flynn	2012 - 2013

**2.5 Goal: High School iPad Cart**

<b>Initiative</b>	<b>Leadership</b>	<b>Timeline</b>
Purchase iPad Mobil Cart for Pilot of the Flipped Classroom	Dr. Lisa Oliveira, Jacob Kravitz, Katherine Deluca, Ellen Dill, Justin Flynn, Sean Bouzan	2013 - 2014

## 2.6 Goal: Implement scan to email services

Initiative	Leadership	Timeline
Review Copier Contracts with Vendors – add ability to scan to email copiers	Paul Schaefer, Justin Flynn Domenic Sergio, Sean Bouzan	2012 - 2014

## 2.7 Goal: Increase Bandwidth of Internet Access

Initiative	Leadership	Timeline
Working with Comcast – secure quotes for increasing speed for accessing Internet.	Sean Bouzan, Michael Bois Administrator Leadership Team	2012 - 2014

## 2.8 Goal: Data Bridge creation Budget Sense (HR) and iPass (SIS)

Initiative	Leadership	Timeline
Work with Payroll Benefits to establish criteria needed to create a data bridge to efficiently keep them current.	Paul Schaefer, Mary Shepardson, Patricia Olen, Sean Bouzan	2012 - 2016

## 2.9 Goal: PARCC Readiness and Planning

Initiative	Leadership	Timeline
Collaborate and plan for the potential needs for PARCC (Staffing, Technology & Training)	Dr. Susan Gilson, Dr. Lisa Oliveira, Sean Bouzan	2012 - 2016

## 3.0 - OPERATIONS, MAINTENANCE, AND UPGRADES

In prior years KPRSD has leased computer equipment renewing every 4 years so as to remain current. We will continue to do so, however but on a smaller scale. We believe that a district purchased 1:1 ration is not cost effective, maintainable and sustainable. Given our research we will be piloting a Bring your own technology program and phasing out and reallocation of the 4 computers in each classroom over upcoming years. Computer Labs, Carts and Staff devices will continue to be replaced but on a 5 year cycle. (As recommended by the Massachusetts Department of Education). This will occur in tandem with research and implementation of a web portal or virtual desktop.

### 3.1 Goal: Bring Your Own Technology Program (BYOT)

Initiative	Leadership	Timeline
<p>Research and implement Bring Your Own Technology including acceptable use agreement. Allowing for the use of staff and student devices on our wireless network.</p> <p>A subset of BYOT is access to resources and software. (i.e. Web Portal or Virtual Desktop)</p>	Technology Department Staff, Administrative Team	2012 - 2016

### 3.2 Goal: Creation of a Facilities Custodial Help Desk System

Initiative	Leadership	Timeline
Provide Training for Technology Department Staff	Dr. Susan Gilson, Paul Schafer, Dr. Elizabeth Zielinski, Dr. Lisa Oliveira, Mark Belanger, Thomas Lawler, Sean Bouzan	2012 - 2016

### 3.3 Goal: Middle School iPad Carts

Initiative	Leadership	Timeline
Purchase iPad Mobil Cart for ELA and Math Department. ELA will be assisting in the virtual textbook research and testing. Math will be performing online assessments for common core.	Nancy Fischer, Marybeth Runyon, Domenic Sergio, Justin Flynn, Sean Bouzan	2013 - 2016

### 3.4 Goal: Middle School Netbooks for STEM

Initiative	Leadership	Timeline
Purchase a cart of 32 Netbooks for use in Science and Engineering (STEM)	Susan Hall, Richard Klokman, Domenic Sergio, Justin Flynn, Sean Bouzan	2013 - 2016

#### 4.0 - PROFESSIONAL DEVELOPMENT

In an effort to support the use of technology in the schools we must provide professional development, for instructional staff, administrators, and others involved with purchasing and using these devices and services. Teachers need training on technologies that their students will be using. Administrators and other personnel need to be aware of the range of technologies that are available. Training must also be provided to the Technology Department staff members on the use of new equipment and software throughout the district.

##### 4.1 Goal: Train New Staff

Initiative	Leadership	Timeline
Prepare new staff for the use of the district network, servers and email. Include training of grading systems, website and role specific software.	Sean Bouzan, Dr. Susan Gilson, Dr. Lisa Oliveira, Dr. Elizabeth Zielinski	Annually

##### 4.2 Goal: Provide All Staff Continued Support and Coaching in the Area of Technology

Initiative	Leadership	Timeline
Offer staff opportunities for professional development in- district both during and after school on the use of the technologies available in the schools.	Sean Bouzan, Dr. Susan Gilson, Dr. Lisa Oliveira, Dr. Elizabeth Zielinski	Annually
Provide training in VM-Ware, iPass, School Fusion, Bradford NAC and web portal for technology department staff.	Sean Bouzan	2012 - 2016

## 5.0 - ADDITIONAL HUMAN RESOURCES IN SUPPORT OF TECHNOLOGY

In an effort to reach technology standards set by the Massachusetts Department of Elementary and Secondary Learning, the King Philip Regional School District will work towards increasing the amount of technical support available to faculty, staff and students.

### 5.1 Goal: Increase Support for Teachers District-wide in the area of Technology Support and Integration

Initiative	Leadership	Timeline
District Help Desk Support and Integration Specialist.  With the increasing number of software, BYOT devices and overall “How Do I” questions. Additional coverage’s, training and support are needed.	Sean Bouzan, Dr. Susan Gilson, Dr. Lisa Oliveira	2014 - 2016

## MONITORING, EVALUATION, AND REVISION OF THE TECHNOLOGY PLAN

### MONITORING AND EVALUATION PROCESS

Given the ever-changing complexity of technology, it is necessary to recognize the need to constantly update and monitor the attainment of the stated initiatives. The technology team intends to review the success of its implementation and the relevancy of the technology. Monthly meetings of all technology will monitor incremental success. Comparison of preliminary to subsequent data in the areas of networking and hardware will help to determine this impact.

### INCORPORATION OF EVALUATION INFORMATION FOR ONGOING PLANNING

As a result of the monitoring strategies delineated above, the Technology Committee will review the success of the initiatives and will adjust the subsequent years’ action plans. Determination will be made to ascertain the need for additional effort in particular areas. Given the dramatic changes in technology in recent years, it is necessary to view this information with vision yet flexibility.

### PROCESS OF REPORTING TO TECHNOLOGY COMMITTEE

Committee members will be kept up-to-date on the Technology Plan’s progress through email, technology demonstrations, and committee meetings.

### PROCESS AND TIMELINE FOR ONGOING, LONG-TERM PLANNING

The district technology committee will incorporate the results of the yearly monitoring of the plan to determine its efficacy and will utilize these results when it further reconvenes to develop the goals for the subsequent three-year plans. At this point it will revise the vision, determine goals

and future initiatives, and address the priorities. This will respond to new emerging technologies which are relevant to improving learning and supporting the objectives and goals of curriculum frameworks and global collegiality. Continuous strategic planning will insure a 21<sup>st</sup> century education for our students, which will prepare for lifelong learning in the years to come.

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