Technology Plan
Owen County School District
Owenton, Kentucky

http://www.education.ky.gov

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www.owen.kyschools.us

Acknowledgments

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Executive Summary

In order to meet the mission of Owen County Schools which we believe "our purpose, our passion, and our work are focused everyday on preparing 100% of our students to become college and career ready," we have outlined our goals, vision, needs, and solutions. We believe technology is a tool to improve student learning. Teachers are the guides directing students in learning. Technology benefits students in multiple ways. The mission of the Owen County Technology department is to provide the best possible electronic resources to our students and staff to enhance learning and increase student achievement.

We have looked at our needs and determined we have needs in the following areas: improved access to wireless in all classrooms, incorporate virtual learning lab within the high school, integrate Project Lead the Way, continue offering online course support through the network, support STLP throughout the district, continue digital citizenship training, continue current staff training and incorporate new technologies, continue replacement rate of devices, increase the number of student devices, and continue professional development.

Planning Process and Methodology

The technology committee continually discusses the needs of the district and brainstorms for ways we can improve the technology in Owen County Schools throughout the school year. We discuss the success of our technology goals and solutions and make changes accordingly. We have discussed ways to implement the technology and evaluate our success in meeting the goals of our technology plan. We currently use the school improvement plans of each of our schools as well as the district plan to identify ways technology can improve student learning and achievement. Our plan is evaluated and revised as needed.

As we reflect on last year's plan, we have upgraded the current wireless access points within the high school. We have supported the needs of all buildings and facilities within the district. We have also evaluated the effectiveness of the instructional technology and are looking at ways to improve and build on our current technology. We have met our goal of maintaining our current switches, video distribution system, subscribing to cellular phone services with Internet access, local and long distance along with Internet access for all students and staff. Further, we have continued to replace 20% of our current inventory of workstations. However, we are working to continue a replacement plan and incorporate more devices for students. We are phasing out software that is out of date as well as hardware. We have purchased all new servers and have gone to virtualization.

An evaluation of the previous plan shows we still have goals that need to be met and others that need to continue to be goals. We need to continue Internet access for all staff and students. We still require cellular phones with Internet access, phone service to all classrooms, maintenance of all equipment, STLP student technical support and training for our teachers. This year we also intend to upgrade network components within the district.

Current Technology and Resources

Workstations are all less than five years old and we have stayed with our 20% replacement plan. The age of our network five years old. Most all of our workstations are located in labs at the high school and middle school. We have three carts of Hp streams at the high school and 2 at the middle school. In addition, the classrooms at the elementary have either 2 student computers or 3 student iPads in each classroom. This is a SBDM decision as to how they distribute their resources. We have 1GB speeds to the desktop and speed across the LAN is 20 GB for middle and high and 2 GB for primary and elementary. Our STLP is still being used to address our technical needs. We continue to carry maintenance on our core network, switches, routers, phone system, Vbrick, etc. and we need to continue that Currently, every teacher/classroom has an ipad, swivl, projector, turning point clicker, mobi, interwrite board, and ladibug. In addition, our teachers continue to need training in emerging and existing technologies to make the most of what we currently offer as far as technology resources. Our technical staff still needs additional training in emerging technologies.

Curriculum and Instructional Integration Goals

We envision our schools using technology as a tool to further student achievement and for teachers to deliver instruction that requires higher level thinking skills from our students. We want to see our students using technology to increase their productivity, creativity and further their understanding of core content across all content areas. We also want to use the technology to gather assessment data and make data-driven decisions based on assessment data.

Goal 1

Faculty and staff will utilize technology resources in classroom instruction in order to increase student engagement and learning.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
1.1 Curriculum maps will be used to integrate technology that are aligned to common core standards.	Increase in technology integration.	Evaluations, lesson plans, and observations.	7/01/2016-6/30/2017	Principal, Teacher, Instructional Supervisor	N/A
1.2 Incorporate a virtual learning lab at OCHS.	Increases course offerings otherwise not available at Owen County Schools.	Student enrollment in courses.	7/01/2016-6/30/2017	Principal, Teacher, Instructional Supervisor, Director of Technology	KETS District General Funds Local School Funds
1.3 Incorporate PLTW in grades 2-8.	Increase student performance in math/science.	Increase K-Prep and MAP scores.	7/01/2016-6/30/2017	Principal, Teacher, Instructional Supervisor, Director of Technology	KETS District General Funds Local School Funds

Goal 2

Teachers will use technology to improve student performance in math and reading (RTI). Based on the CDIP for Owen County Schools.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
MAP, Study Island, and online course programs	Increase in student achievement in math/reading.	MAP ACT K-Prep	7/01/2016-6/30/2017	Principal, Teacher, Instructional Supervisor	District General Funds KETS

Curriculum and Instructional Integration Goals – Evaluation

Teachers continue to need guidance in how to best guide students in using electronic resources and the proper use of technology – digital citizenship is a critical piece. Delivery of professional development into the classroom is crucial to the implementation and evaluation of use of technology and its integration into the curriculum.

The plan must have clear goals and a specific implementation plan detailing how technology will be integrated into curriculum and daily instructional practice. This includes a description of:

1) Rigorous academic courses and curricula will continue to be offered in face to face classrooms and online learning opportunities for students. This includes college classes being offered via the Internet. In addition, credit recovery will be offered using distance learning and the Internet to meet the needs of all students.

2) The distance learning and face to face classrooms with MAP and ACT, and other formative assessments will show college and career readiness for our students as a direct result of curriculum that is aligned with the Kentucky Core Academic Standards and goals. Exit slips and flashbacks will be used in all classrooms along with I Can statements to guide students in achieving academic goals and standards.

3) MAP and ACT, other formative assessments, student work and teacher lesson plans will be used as indicators and accountability to measure and evaluate the extent that activities are effective in integrating technology into instruction. These assessments along with walk-throughs, teacher evaluations and student work samples will be used to evaluate and direct instruction to meet challenging state academic standards.

4) Using the data from above, if results are not met, the data will be shared with staff, board of education members, school leadership along with district leadership and measures will be taken to improve student achievement. The longitudinal data will show growth and evaluation of that data will direct instruction.

Student Technology Literacy Goals

Technology skills and resources will be incorporated into every day learning and instruction. The District will also incorporate state and national standards.

Link to the Kentucky Core Academic Standards:
http://education.ky.gov/curriculum/docs/Pages/Kentucky-Core-Academic-Standards---NEW.aspx

Goal 1

Students graduating from Owen County Schools will be competent users of technology tools; they will understand when technology is an appropriate tool to complete a task as well as which technology is best suited to a given task.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
1.1 Review state and national student technology standards and incorporate them into district curriculum guides as appropriate.	Technology will be better integrated into curricular areas.	Students will be competent users of technology tools.	7/01/2016-6/30/2017	Principals, Teachers, Instructional Supervisor, Director of Technology, Network Administrator, TRT	KETS, Title I, E-Rate, local district general funds, SBDM funds, PTO
1.2 Continue STLP program throughout the district and participate in regional and state events.	Leadership, public speaking, and real-world applications.	Number of student participants.	7/01/2016-6/30/2017	STC, TRT, Principals, STLP coordinators	District General Funds

Goal 2

Students will use technology in a safe and appropriate manner.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
All students and faculty will complete training in Digital Citizenship and proper usage.	Technology will be better integrated into ALL curricular areas.	Signed AUP, signed Use of Technology, course completion on acceptable use	7/01/2016-6/30/2017	Principals, Teachers, Instructional Supervisor, Director of Technology, Network Administrator, TRT, Superintendent	

Student Technology Literacy Goals – Evaluation

Assignments posted on teacher web pages or to online classes. Teachers will also develop online classrooms for students.

1) Student assignments will be posted on teacher websites or to the online classroom.

2) The goals to enhance students' 21st Century skills of critical thinking, communication, collaboration and creativity will be evident through teacher lesson plans and student products.

3) The instructional materials or electronic resources needed to support all of these strategies include webhosting and online classroom tools that are accessible to students and teachers 24 x 7, anytime, anywhere. In addition, the teacher lesson plans, course syllabi and student work will demonstrate the use of these strategies.

4) Data from walk-throughs, teacher evaluations, lesson plans, end of course assessments, ACT, MAP and other formative assessments will be used to gather data. Administration and teacher leaders will examine the data and will adjust instruction accordingly. The data will be shared with all staff, board of education and public via the board meetings.

Staff Training/Professional Development Goals

The goal of technology professional development is to build capacity in the schools by training teachers in key areas. Teachers will receive direction training which is job embedded that will provide them with continuous learning and access to resources. The goal is for teachers to share and support their peers in grade level/departmental meetings in all areas of technology instruction.

Goal 1

Teachers will learn to more effectively implement the resources that we currently have to impact student learning.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
1.1 Teachers/Faculty will receive training on office 365 and GAFE.	Teachers will be better prepared to use available technology.	Sign in sheets, TRT calendar	7/01/2016-6/30/2017	TRT, Network Administrator, Director of Technology	KETS District General Funds Local School Funds
1.2 New hires will be trained on the available classroom technology tools.	Teachers will be better prepared to use available technology.	Sign in sheets	7/01/2016-6/30/2017	TRT, Network Administrator, Director of Technology	KETS District General Funds Local School Funds

Goal 2

Provide appropriate and relevant technology training in a variety of formats for faculty and school staff.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
1.1 Provide ongoing technical training/support for various instructional technology. (face to face, video, email, etc.)	Teachers will be better prepared to use available technology.	Sign in sheets, TRT calendar	7/01/2016-6/30/2017	TRT, Network Administrator, Director of Technology	KETS District General Funds Local School Funds
1.2 STC training and monthly technology committee meetings.	Keep STC's and committee aware of emerging technologies for implementations.	Sign in sheets, minutes	7/01/2016-6/30/2017	TRT, Network Administrator, Director of Technology	KETS District General Funds Local School Funds
1.3 Support teacher participation at state KySte conference and STLP coordinators to STLP events.	Teachers and coordinators will learn new technologies.	Registration/sign in	7/01/2016-6/30/2017	TRT, Network Administrator, Director of Technology	KETS District General Funds Local School Funds

Staff Training/Professional Development Goals – Evaluation

Teachers, staff and administrators are evaluated annually and must show technology competencies in daily communications, student attendance, data analysis and communication with parents, board members and the public. All staff including the following will have the necessary training needed to do the best possible use of technology in the day in and day out activities of their jobs. The current level of ability of staff to utilize technology and the increases in competencies sought through professional development activities.

School Technology Committees

- School Technology Committees work throughout the year to coordinate activities and staff development in their schools. Schools have written a consolidated plan which includes the school technology plans and update them as needed. They use yearly assessments to plan for the next school year.

- School Technology Committees develop a plan for the hardware and software needs of the school. They determine the importance of each need and decide on the implementation.

School Technology Coordinator

- STC's serve as technology coordinators at each school. They receive ongoing training and are a critical component of network and instructional support to schools.

- STC's coordinate courses and workshops. Courses are offered in a variety of formats and times, including during and outside of the school day and the school year

Principals

- Principals are responsible for implementing the Acceptable Use Policy for every individual in the building with access to the network.

- Principals are responsible for fostering technological instruction with the faculty to be integrated into instruction.

- Principals in each building will be responsible, with the backing of the SBDM Council to ensure technology skills are met at ALL grade levels.

Technology Goals

We envision our schools using technology as a tool to further student achievement and for teachers to deliver instruction that requires higher level thinking skills from our students. We want to see our students using technology to increase their productivity, creativity and further their understanding of core content across all content areas.

Goal 1

All teachers and students will have adequate access to technology.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
1.1 Continue STLP in providing maintenance on our hardware and software.	Increased reliability for access to instructional materials for our students and staff	Network and machines are reliable and working 99% of the time.	7/01/2016-6/30/2017	TRT, Network Administrator, Director of Technology	KETS District General Funds Local School Funds SBDM PTO
1.2 Replace computers using a five year cycle.	Ensures modern, quality machines to access voice, video and data.	Technology Readiness Survey/Inventory Collection	7/01/2016-6/30/2017	TRT, Network Administrator, Director of Technology	KETS District General Funds Local School Funds
1.3 Increase wireless saturation to increase coverage for students and staff at MBMS.	More accessibility to mobile learning.	Sign out sheets and filter reports	7/01/2016-6/30/2017	STC, Network Administrator	E-Rate KETS District General Funds
1.4 Increase	More accessibility to	Sign out sheets and	7/01/2016-	STC, Network	E-Rate

wireless saturation to increase coverage for students and staff at OCHS.	mobile learning.	filter reports	6/30/2017	Administrator	KETS District General Funds
1.5 Replace core router for the district to improve connectivity.	More reliable access.	Network uptime monitoring.	7/01/2016-6/30/2017	Network Administrator, TRT, Director of Technology	E-Rate KETS District General Funds
1.6 Increase student device ratio.	Increased number of devices in the hands of students.	Inventory reports	7/01/2016-6/30/2017	Principals, Teachers, Instructional Supervisor, Director of Technology, Network Administrator, TRT, Superintendent	KETS District General Funds Local School Funds SBDM PTO
1.7 Microsoft School Agreement to provide the most current operating systems, productivity software and email access to all staff and students.	Students and staff will have access to all technology systems and electronic resources.	All machines will be on Windows 10 and Office 2013	7/01/2016-6/30/2017	Network Administrator, TRT, Director of Technology	KETS District General Funds Local School Funds
1.8 Webhosting services will be secured that allow teachers, students, staff and parents anywhere, anytime access to online classrooms and technology	Increased communications between school and home along with online classroom opportunities for teachers and students.	Online classrooms will be maintained and links to email, infinite campus and parent portal will be maintained.	7/01/2016-6/30/2017	Network Administrator, TRT, Director of Technology	KETS, Title I, Erate, local district funds

resources.					

Technology Goals – Evaluation

The technology department will keep a current electronic inventory along with notifying school staff when they should be replacing their existing workstations for budgeting purposes. The plan will be revisited at each district technology committee meeting to monitor progress toward goals and to make corrections in response to any new developments as they arise. The district activities will be followed closely with the school improvement plans and the consolidated district improvement plan. The instructional environment will be used to gauge the success of the technology along with teacher lesson plans, student work and observations and walk-throughs. Our SIS has online access to grades and information. Because everything will now be going through a portal, it is critical that ALL teachers and administrators keep up-to-date information available. It is important that ALL teachers have the necessary skills to do their jobs efficiently and be able to teach students the necessary application of technology usage.

Budget Summary

Acquired Technologies and Professional Development	E-Rate	KETS	Local General Funds
Conference Fees, memberships, professional development		5,000.00	5000.00
STC Stipends 854 * 4 plus benefits		3,516.00	
Infinite Campus Costs $8.25 x # of students 1950		11,503.13	
MUNIS Cloud		5,659.72	
Maintenance on Switches & Core Network			15,000.00
Microsoft School Agreement			13,000.00
Student Wages for both summer and during school year workers			35,000.00
Web Hosting		3,500.00	
NWEA-MAP			21, 750.00
Printing Service			8,000.00
MDM-LightSpeed		4,000.00	
MBMS Wireless - 2016-17 Project	60,000.00		10,000.00
Core Router Replacement	60,000.00		10,000.00
OCHS Wireless – 2016-17 Project	40,000.00		5,000.00
Computer Replacement/Additional		30,000.00	45,000.00
Technology General Supplies			10,000.00

Technology Replacement Parts			5,000.00
TOTAL	140,000.00	58,183.85	182,750.00
E-Rate (denotes) Funding Requests Approximate FY16			

Budget Summary – Narrative

In order for technology to be fully integrated into instruction, there must be sufficient equipment available. This includes the need for a variety of technologies to meet the learning needs of students. However, just because the hardware and software is available, there is no guarantee that student proficiency will increase. Administrators and teachers have to embrace change and seamlessly integrate technology into the curriculum and instruction delivery. We are now on track working toward this goal. These technologies will be used to improve the productivity of everyone in the educational process by allowing them to work smarter rather than harder. Owen County Schools is a leader in the area of technology and we want to stay there. In order to do that we have to use a combination of KETS, E-Rate, SBDM monies, PTO, General Fund and Title I monies money to continue to provide our students and staff with the appropriate funding sources to make our plan work. We continue to need to provide a Director of Technology, network administrator and technology resource trainer along with using STLP students as our technical support. Without all of these funding sources and resources, we would not continue to meet the needs of the Owen County Schools.

Attachments/Appendices (Optional)

Include any necessary attachments or appendices such as Procurement Plans, Technology Inventory, Evaluation reports, etc. Number each attachment consecutively and be sure to list them in the Table of Contents.

Section 1: Instructional Devices and Ease of Access		
Student Devices in Elementary Schools (P - Grade 5)	**Total**	
Total Number of Instructional Devices for STUDENT Access (this includes ALL devices and access "seats")	197	
Student Devices in Secondary Schools (Grade 6 - Grade 12)	**Total**	
Total Number of Instructional Devices for STUDENT Access (this includes ALL devices and access "seats")	560	
Staff Devices in ALL Locations (Classroom Teachers, Administrators, & Other personnel, and District Offices)	**Total**	
Total Number of Instructional STAFF Devices District Wide	358	

Total number of Instructional Devices	**Total**	**Percent of Devices**	**Ratio to 1**
Student Devices	**757**	**67.90%**	**2.33**
Staff Devices	**358**	**32.10%**	
TOTAL	**1,115**	**100.00%**	

Personally Owned Devices	**Yes**	**No**
1. Has the district permitted (by way of policy) personally owned Devices to be brought to school by students?	0	1
2. Has the district permitted (by way of policy) personally owned Devices to be brought to school by staff (adults)?	0	1