

Technology Plan:  
Owen County School District  
Owenton, Kentucky



<http://www.owen.kyschools.us>

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Approved Date: Pending Commonwealth Approval

## **Acknowledgments**

### **District Technology Staff:**

Naomi Cornette, Chief Information Officer  
Lisa Allen, Technology Resource Trainer  
Jack Duncan, Network Administrator, STLP  
Job Coach

### **School Library Media Specialists**

Martha Hamilton, Owen County High School  
LeeAnn Gamm, Maurice Bowling Middle School  
Carrie Wilhoite, Owen County Elementary  
School  
Mindy Green, Owen County Primary School

### **Additional District Contributors**

Leslie Robertson, District Assessment  
Coordinator, Title I Coordinator, Owen County  
Schools  
Charlotte Elkins, Director of Pupil Personnel  
Sharen Hubbard, Owen County High Principal

### **Other**

Sheila Miller, Parent of student at Bowling  
Middle School  
Debbie McMillen, Parent of student at Owen  
County Elementary School

### **School Technology Coordinators**

Martha Hamilton, Owen County High School  
LeeAnn Gamm, Maurice Bowling Middle School  
Carrie Wilhoite, Owen County Elementary School  
Mindy Green, Owen County Primary School

### **Technology Resource Teachers**

Lisa Allen, Technology Integration Specialist,  
Owen County Schools

### **Students**

Megan Harris, Owen County High School  
Patrick Brumback, Owen County High School  
Jenna Harris, Owen County High School  
Stanley Ashcraft, Owen County High School  
Meredith Marston, Owen County High School  
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## Executive Summary

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: telecommunications, increased network speed including wireless access, cellular phones with telecommunication abilities and Internet access. Further we need better communications among educators, administrators and between school and home. We also need increased network speed with Internet access for our students and staff to access instructional materials. Our staff continues to have the need for technology integration instruction. The need for maintenance of our existing technology still exists so the technology is available anywhere, any time for our students and staff. Our priorities include telecommunications that encompass local phone service, long distance phone service (interlata & intralata), maintenance of our phone system (voice over internet protocol – VoIP) with voice mail and conferencing abilities and continued cellular service. These services will assist us in increasing communication between school and home and among administrators for safety. Maintenance of our network components is a must and we have 4 buildings that need wiring replaced to ensure fast speed to network resources. Network access and speed, Internet access, and increased speed/replacement of workstations and servers is necessary to improve the access and speed for our students and staff to electronic media and instructional materials. This includes maintenance of our existing network components, VOIP, video distribution and continued month to month services of basic phone service, internet access, voicemail, continued cellular phone service that would increase our communication abilities among educators, administrators and communication from school to home. In addition, the wiring in 4 of our schools needs to be replaced with Category 6 wiring to ensure faster speeds to access instructional resources. Further, we can meet our needs of technology integration with a technology integration specialist. Our need of replacing existing equipment will require purchasing new workstations and servers and our need for continued maintenance on existing equipment will also be a solution to our needs.

## **Planning Process / 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. We also use these improvement plans to identify the changes to our current technology that are needed. The high school students on our committee provide great insight for the needs of our students. The chief information officer, technology integration specialist and the network administrator participate in school improvement planning and development of the plan for improving each school and the district. This provides insight for technology needs and services that each school will be targeting for the biennium.

## Technology Vision and 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: Networking

The speed of the network will be increased to ensure adequate instructional resources for students in the classroom. Wireless connectivity will be put in place to give students access anytime, anywhere.

#### *Action Plan: Strategies/Activities*

Strategy/Activity	Begin Date	End Date	Cost	Funding Source	Instructional Outcome
Replace all wiring at Primary, current Elementary, high school and future Elementary	7/1/11	9/30/12	450,000 before erate discount	Erate, Title I funds, KETS, local district funds	Increase access to instructional and electronic materials for all students and staff
Maintain current switches	7/1/11	9/30/12	150,000 before erate discount	Erate, KETS, local district funds	Ensure access to instructional and electronic materials for all students and staff.
Maintain video distribution system	7/1/11	9/30/12	75,000 before Erate discount	Erate, KETS, local district funds, construction funds	Ensure access to instructional and electronic materials for all students and staff.

**Goal 2: Communications and Internet Access**

Increase communications among educators, administrators and between school and home to ensure better communication is possible between school and home. In addition, safety will be increased with increased communication capabilities.

**Action Plan: Strategies/Activities**

Strategy/Activity	Instructional Outcome	Begin Date	End Date	Cost	Funding Source
Subscribe to cellular phone service with Internet access	7/1/11	9/30/12	1953.00 monthly service x 12 months = 23,436 before erate discount	Erate, local district funds	Increased communications between administrators and increased safety for our students
Purchase cellular phone equipment for cell phone use	7/1/11	9/30/12	3111.60 one time cost for equipment before Erate discount	Erate, local district funds	Increased communications between administrators and increased safety for our students.

### Goal 3: Telecommunications

Secure Telecommunication services for local, long distance and Internet access for the entire district so students and staff have access to instructional resources.

#### *Action Plan: Strategies/Activities*

Strategy/Activity	Begin Date	End Date	Cost	Funding Source	Instructional Outcome
Secure local phone service for all classrooms and staff.	7/1/11	9/30/12		Erate, local district funds	Increased communications between school and home while also providing safety for our students.
Secure long distance service (interlata & intralata) for all classrooms and staff.	7/1/11	9/30/12		Erate, local district funds	Increased communications between school and home while also providing safety for our students.
Secure Internet Access for all students and staff	7/1/11	9/30/12		Erate, local district funds	Increased access to instructional resources and data.
Secure cellular phone service with data and Internet services	7/1/11	9/30/12		Erate, local district funds	Increased communications between school and home, admin to admin while also providing safety for our students.



## Goal 4: Instructional Technology Resources

Speed of the workstations currently being used need to be increased to support instruction in the classroom and the use of technology in the classrooms across content areas.

### *Action Plan: Strategies/Activities*

Strategy/Activity	Begin Date	End Date	Cost	Funding Source	Instructional Outcome
Replace computers with higher speed @ 20% of our current inventory.	7/1/11	9/30/12	20% of our inventory replaced would be \$102,760	local district funds, KETS, Title I, construction funds	Increased access to instructional materials for our students and staff.
Replace 20% of our current inventory of servers with faster speed annually.	7/1/11	9/30/12	20,000 before erate discount for each year – total 40,000	Erate, local district funds, Title I, KETS	Increased access to instructional materials for our students and staff.
Continue STLP in providing maintenance on our hardware and software.	7/1/11	9/30/12	20,000 annually	Local funds	Increased reliability for access to instructional materials for our students and staff
Continue licensing McAfee anti-virus software, server software and productivity software	7/1/11	9/30/12	\$47,068.52 before Erate discount	Erate, KETS, Title I, local district funds	Continued access to instructional materials for students and staff
Continue maintenance of Ethernet TV services for all schools connected via fiber links	7/1/11	9/30/12		Erate, KETS, Title I, Local District funds	Continued access to instructional materials for students and staff
Install projectors,	7/1/11	9/30/12		Erate,	Continued access to

school pads & CPS into all classrooms at the new elementary school				KETS, Title I, District funds, Construction funds	instructional materials for students and staff
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## Staff Training/ Professional Development Goals

### Goal 5: Professional Development

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.

#### *Action Plan: Strategies/Activities*

Strategy/Activity	Begin Date	End Date	Cost	Funding Source	Instructional Outcome
Provide teachers with a technology integration specialist right in the classroom.	7/1/11	9/30/12	35,000 annually local district funds, KETS, Title I, Title II Non-competitive funds	local district funds, KETS, Title I, PD funds, Title II D	Increased use of technology in classroom instruction and in student products and projects
Provide professional development opportunities through conferences.	7/1/11	9/30/12	10,000	Local district funds, Title I, KETS, local PD funds, Title IID	Increased use of technology in classroom instruction and in student products and projects.

**Current Technology and Resources**

Teachers continue to need guidance in how to best guide students in using electronic resources. Currently, we have 14 servers that include instructional and administrative tasks and provide services to all of our students and staff. We use an ISA server for internet filtering. Our instructional staff has access to ceiling mounted projectors in each classroom at the Primary, Middle and High Schools. Now that our new middle school construction is complete, the elementary will be moving into the current middle school and projectors will need to be installed in every classroom. All instructional staff have access to Classroom Performance Systems with a ratio of 1:1 at the high school and shared at the middle, elementary and primary schools. All staff & students have access to high speed computers that are five years old or less. This 20% replacement plan has worked really well for us. We can budget better, plan well and have warranties on our workstations. Thankfully, this has provided us with not having to go with the break-fix model of maintenance. We make sure to upgrade any of the machines that are aging by using the Student Technology Leadership Program to install memory upgrades, larger hard drives, etc. We have seven students who work for the technology department to repair computers, install software, hardware and troubleshoot network problems. In addition, they install and provide maintenance on all printers, projectors, switches, etc. This has been an outstanding situation – a real win-win. The district wins because we can cheaply keep our systems going. Our students win because they make a little money and learn a fabulous skill they can take with them when they leave us. Training has always been an issue for teachers and continues to be as new equipment, hardware and software are introduced. We use a technology resource trainer who goes right into the classroom and works with staff and students on the job with that new equipment and software. We are also using classroom performance systems to assess student achievement and learning. The staff and students report this service is one they can't live without. This has been extremely successful and we will continue this service. We also provide opportunities for professional development by attending conferences that utilize technology as a tool for student achievement. These conferences provide our staff with opportunities to see technology in use and to imagine the possibilities for their own students back in the classroom. In addition, these conferences provide the opportunity to see cutting edge technology and plan for the future of technology use in our schools and classrooms.

**Evaluation**

Evaluation of technology is crucial in providing the best possible technology services to students and staff. Through the use of the Technology Readiness Survey, our inventory database, Spiceworks inventory, and ISA reports, we can track our progress in the area of workstations, software, access, to wireless and mobile computing. Further, we can track progress of instruction with technology infused through teacher lesson plans and student products.

**Goal 6: Evaluation of Technology**

**Action Plan: Strategies/Activities**

Strategy/Activity	Begin Date	End Date	Cost	Funding Source	Instructional Outcome
Evaluate computer classroom access.	7/1/11	9/30/12	75,000 annually to replace	local district funds,	This will ensure all schools are providing

All schools will have a 6:1 ratio of students to computers (minimum). These will be high level, multimedia student work stations with up to date software, multimedia applications and Internet access.			computers from local district funds, KETS, Title I, Title II Non-competitive funds	KETS, Title I, PD funds	equitable access to all students.
Evaluate classroom computer use. Using student products and teacher lesson plans, we will evaluate the effectiveness of classroom computers	7/1/11	9/30/12	0	Principals current salary will cover this.	Evaluate the level of use our students are using computers for higher order thinking skills. Think Link, Study Island, Ticket to Read, etc.
Evaluate the use of wireless access for all students. Our goal will be 1:1 classroom access points with concentrated coverage in all schools.	7/1/11	9/30/12	0	Technology Dept. will use wireless tester to ensure coverage in every classroom	Evaluate the level of student access to wireless anytime, anywhere.
Evaluate the use of mobile computers for students. We plan to have 2 carts in every building of laptops so students can utilize the wireless access and mobility the laptop can provide.	7/1/11	9/30/12	0	SBDM funds, KETS funds, Title I, Title IID, local district funds	Evaluate the use of the laptops

## Budget

### School Year: 2011-2012 Annual Budget Summary

**Note: duplicate this page for each year as needed** (if a multiyear plan)

- List the professional development and technologies to be acquired during each year of the agency's plan.
- List all funding sources for recurring services, anticipated purchases, and professional development.
- Include the total of all technology resources to support the district's technology initiatives.
- Note: At least 25% of the funds allocated to an LEA through the *Title IID ED Tech Program* (Competitive and Non-Competitive), must be allocated for professional development activities.
- This information will be helpful in completing Item 25D on the E-Rate Form 471.

Acquired Technologies and Professional Development	Ed Tech Competitive Title IID	Ed Tech Formula Title IID	E-Rate	NCLB/other than Title IID	KETS	Other (Specify)
Continue maintenance of network components			150,000 before erate 90% discount			General Fund: 1500
Wire the new elementary school with Cat 6 with 825 drops RJ45 connections, faceplates, wiring racks, patch panels, termination jacks			130,000 Before 90% Erate Discount			Construction Funds
Wire the current elementary school with Cat 6 with 825 drops RJ45 connections, faceplates, wiring racks, patch panels, termination jacks			130,000 Before 90% Erate Discount			Construction Funds
Wire the Primary school with Cat 6 with 825 drops			130,000 Before 90%			General Funds

RJ45 connections, faceplates, wiring racks, patch panels, termination jacks			Erate Discount			
Wire the High School school with Cat 6 with 850 drops RJ45 connections, faceplates, wiring racks, patch panels, termination jacks			150,000 Before 90% Erate Discount			General Funds
Continue maintenance of Voice over IP phone system			75,000 Before 90% Erate Discount			General Funds
<b>TOTAL</b>						

## Budget

### School Year: 2012-2013 Annual Budget Summary

**Note: duplicate this page for each year as needed** (if a multiyear plan)

- List the professional development and technologies to be acquired during each year of the agency's plan.
- List all funding sources for recurring services, anticipated purchases, and professional development.
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<b>TOTAL</b>						



## **Attachments/Appendices**