Technology Plan
Dayton Independent School District
Dayton, Kentucky

http://www.dayton.kyschools.us/

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Acknowledgments

District Technology Staff

Casey Woods – District Technology
Coordinator / Network Administrator

School Technology Coordinators

N/A

School Library Media Specialists

Linda Griffith – Dayton High School

 Erin Pifer – Lincoln Elementary School

Technology Integration Specialist

N/A

Additional District Contributors

Students

Other

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Executive Summary

Continue to purchase, replace and upgrade equipment for classroom/lab use to meet hardware/system requirements for programs such as Infinite Campus, MAP (Measures of Academic Progress), Infinite Campus Food Service. Upgrade systems/memory on workstations to meet requirements for programs such as READ, WRITE, GOLD, and purchase of intelligent classroom equipment such as presenters, classroom performance systems, LCD projectors, and digital cameras.   Continue to monitor the schools' network infrastructures to ensure adequate connection speeds for the ever changing needs of the advancements in technology. Wireless access will provide student and teacher mobility and the use of wireless devices such as laptop computers or handheld devices, including personally owned laptops, tablet devices, and/or other personally owned mobile wireless devices. We will Seek/Offer Professional development opportunities for teachers on the effective use of technology in the classroom setting to promote integration through tech-based projects, on-line research/activities, student e-mail, and various hardware/software (i.e. handhelds, multimedia presentations, Smart Boards, Texas Instrument Grafting Calculators) so teachers and administrators will develop the skill levels based on the National Education Technology Standard. Develop and utilize a technology needs assessment form and work order request for teachers and administrators to prioritize equipment, training needed, and quicker maintenance on equipment.

Network infrastructure upgrade/replacement of data cabling will be down to provide high speed network connectivity to the desktop. These upgrades would result in decreased teacher/student frustration levels, increased connectivity speed and reliability, increased access by teacher/students, and an increased data transfer rate. These actions would result in lowered frustration levels fro students/teachers, and a lower student/computer ratio, an increase in student access as computers are placed in classroom for student use, and an increased use of technology in the classrooms. Professional Development opportunities will result in more effective use of technology in the classroom and labs, enhancement of teacher/student technology skill levels, greater awareness and use of new technologies, and an increase in technology related activities across the curriculum. These outcomes will result in more positive surveys taken by students on the KCCT test in relation to their technology awareness in their schools.

Planning Process and Methodology

The district technology committee took the individual school technology plans and put them in order of importance. The committee then went through the items calculating the cost of each item. After determining the cost of each item for the technology plans, activities, and wishes, a budget and a timeline for implementation was developed. The implementation for the plan was then developed. The district is aware that an increase in technology skills and application of these skills by students and staff need to be developed though on-going professional development opportunities for the integration of technology into the curriculum. Updating of equipment needs to be completed throughout the year to keep current with present demands. Once a semester the plan is evaluated and changes or additions are implemented. A yearly review will be completed every July to ensure that all areas are being met. New committee members will be elected to serve at both schools every other year in May. Community, parent and student members will be invited to attend all meetings.

Current Technology and Resources

All instructional classrooms at both Dayton High School and Lincoln Elementary School mounted LCD projectors and an enhanced audio system to provide a larger viewing area for multimedia applications. The media specialists are transitioning to this technology verses purchasing TVs and overhead projectors. Both of our school's libraries have a ceiling mounted LCD projector an enhanced audio system to provide a larger viewing area for multimedia applications. With the expansion of our wireless and wired infrastructure, students throughout the district, have the ability to use their personally owned devices in the classroom as instructional tools. Students will be required to participate in an online Digital Citizenship course before using their personal device. This course will validate that the student understands they must use their personal device as an instructional tool in the classroom; very similar to the way they use a textbook.

Lincoln Elementary School's computer lab has been using the IDUs (Instructional Device Upgrades) to provide students with a faster workstation for up to date applications and multimedia web resources and applications. Two additional computer labs were created to provide additional computers to the students. All instructional teachers have been provided a mounted Smartboard in their classroom.

Dayton High School has purchased three mobile carts with their SIG (School Improvement Grant) monies in 2013-14 and 2014-15 school years. One cart has 25 Surface 2 tablets with keyboards (school year 2013-14) and the other two have 28 Dell Venue Pro 11 tablets with keyboards each (school year 2014-15) for a total of 81 mobile tablet devices. New multimedia student workstations were installed (school year 2006-07) in a high school lab to provide more students access to online (web) and multimedia resources. A business lab of 24 computers are available to the business education teacher for the Microsoft Office Certification class. The teacher workstations were replaced with mobile tablets and docking stations to provide better access to multimedia web resources and applications to help engage students in the classroom. The tablets allow the teachers to walk freely in their classrooms, freeing them from the wired connection. Some teachers received desktop computers instead of the tablet devices due to limits of the SIG funds available. These desktops were purchased from the district technology budget.

Dayton Middle School has purchased three mobile carts with their SIG (School Improvement Grant) monies in 2013-14 and 2014-15 school years. One cart has 25 Surface 2 tablets with keyboards (school year 2013-14) and the other two have 28 Dell Venue Pro 11 tablets with keyboards each (school year 2014-15) for a total of 81 mobile tablet devices. The middle school has a lab of 24 desktop computers that were purchased in 2008-09 with IDU funds. The teacher workstations were replaced with mobile tablets and docking stations to provide better access to multimedia web resources and applications to help engage students in the classroom. The tablets allow the teachers to walk freely in their classrooms, freeing them from the wired connection. Some teachers received desktop computers instead of the tablet devices due to limits of the SIG funds available. These desktops were purchased from the district technology budget.

Technology is maintained by current warranties and a work-order process and is provided by a full time systems engineer / network administrator. Teachers need on-going technology training as technology moves very quickly as it changes over a short period of time. To keep students up to date, teachers need to be trained so that they can in turn teach the students.

Curriculum and Instructional Integration Goals

Goal 1

Use of technology for individualized student learning in the instructional classroom.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
MAP Testing	Individualized Student Goals	Student Achievement	Three times per year.	Teacher/Counselor/Principal	Title Programs General Fund
Compass Learning	Individualized Learning Paths for students	Improve learning by focusing on each students strengths and weaknesses	7/2014 On-going	Teacher/Counselor/Principal	Title Programs General Funds

Goal 2

Teachers will increased the use of technology in the classroom for differential teaching and greater use of resources.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Provide Professional Development on Integrating Technology in the classroom	Differentiated Instructions and multitude of resources being used in the classroom	Lesson Plans/Unit Plans will incorporate technology	7/2014 On-Going	Principal	KETS Title IID
PD will be provided to classroom teachers on all type of technology within the district to use in the classroom and how to use these technologies	Teacher Knowledge and Implementation	Lesson Plans/Unit Plans will incorporate technology Professional Development sign in sheets Logging out of equipment	7/2014 On-Going	Principal Technology Department Media Center Teacher	N/A

Curriculum and Instructional Integration Goals – Evaluation

Teachers will be evaluated on the use of innovative strategies for the specialized or rigorous academic courses through professional development given on various technologies by using the walkthrough instrument. Teachers will be evaluated on the device used and the effectiveness of enhancing student knowledge on a daily, weekly or monthly basis. Teachers will be evaluated on the achievement their students perform on Kentucky Core Academic Standards and the College/Career Readiness Standards. If students are not achieving to the best of their ability through the use of technology devices used the teacher will receive additional professional development on differentiating instruction through the use of technologies. Students meeting the college and career readiness will increase by 20%. All walkthroughs taken by school administrators, district administrators, and curriculum specialist will be compiled quarterly and analyzed. Students work will also be analyzed for use in the quarterly compiling of data.

Student Technology Literacy Goals

Goal 1

Students must take a basic technology course that will prepare them for the ISTE-S Technology Standard for students. This class will be part A taken in 7th grade and Part B taken in 8th grade.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Students will participate in the ISTE-S Technology Standards course offered for all 7th and 8th grade students.	Students will be prepared to meet the 21st Century Skills for the use of technology.	Passing of class	8/2014 – On Going	Classroom Teacher School Administrator	General Fund

Student Technology Literacy Goals – Evaluation

Students through additional requirement will be able to successfully pass the ISTE-S Standards for students. Student meeting the College/Career Readiness Standards will increase by 20% by 2018. Student work will be analyzed on an on-going basis to make sure curriculum is rigorous and aligned to the standards. Professional Development will be provided if students are not progressing at a recommended pace for proficiency. Surveys will be taken to both students and staff to evaluate the curriculum and resources. Data will be compiled twice annually.

Staff Training/Professional Development Goals

Professional development goals will be met by providing training on-site to all administrators, faculty and staff members. This training will be provided by the District Technology Coordinator and the District Network Administrator. If additional training is needed the appropriate personnel will be sent to training or individuals will be brought into the district. District Network Administrator will visit every classroom one time per month to assist in any needs the teachers may have and to monitor use of technology in the classroom. Help will be provided for whatever individual need the staff member may need. Individual times may be requested by staff members if additional training is needed also.

Teachers may also request for the District Technology Coordinator or the District Network Administrator to assist in the classroom if they are unsure of how to use the equipment. This assistance in the classroom will be provided until the staff member is at easy with the use of the equipment.

Goal 1
Administrators and Teachers will be evaluated on the state technology standards

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Continue training/ educating administrators on the National Education Technology Standards for administrators set forth by ISTE and teachers on standard 6	Teachers and administrators will have a better understanding of the standards and be able to apply their knowledge to their respective positions. Administrators will be able to better evaluate teachers' use of technology	Lesson Plans Unit Maps Assessment Binders Have incorporated technology standards	7/2014 - On-Going	Professional Development Coordinator	KETS Professional Development Title Programs
Seek/Offer Professional Development opportunities for teachers on the effective use of technology in classroom setting to	Technology professional development opportunities will result in more effective use of technology in the classrooms and labs, enhancement of	Less Plans Unit Maps Assessment Binders Have incorporated technology standards	7/2014 – On-Going	Director of Technology Director Professional Development	KETS Professional Development

				Network Admin.	Title II D
promote integration through tech-based projects, on-line research/activities, student e-mail, and various hardware/software (i.e. handhelds, multimedia presentations, Smart Boards, Texas Instrument Grafting Calculators) Digital Citizenship Training for Students, Administrators, and teachers.	teacher/student technology skill levels, greater awareness and use of new technologies, and an increase in technology related activities across the curriculum. These outcomes will result in more positive surveys taken by students on the State Assessment test in relation to their technology awareness in their schools.			School Administrators Resource Teachers	General Fund Title II A

Goal 2

Teachers and Administrators will integrate and master state technology standards in the classroom.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Research/Develop/Utilize a technology inventory to evaluate teachers' skill levels based on the National Education Technology Standards and teacher standard 6.	Technology inventory will increase the teachers' awareness of technology standards and allow the district to offer trainings and professional development based on individualized	Surveys Inventory logins/outs Professional Development Sign in Sheets	1/2014 – On-Going	Director of Technology Network Administrator School Administrators	N/A

	professional growth plan.					
Develop and utilize a technology needs assessment form and work order request for teachers and administrators to prioritize equipment, training needed, and quicker maintenance on equipment	A needs assessment would result in district being able to offer trainings/PD based on the actual needs of the teachers/administrators. It would also allow equipment needs to be evaluated more easily and prioritized by way of user feedback.	Professional Developments offered varied. Surveys taken to indicate teacher needs. Evaluation forms as to teacher needs	6/2014 – On-Going	Director of Technology Network Administrator School Administrators	N/A	

Staff Training/Professional Development Goals – Evaluation

Teachers and Administrators will be provided on-going job embedded professional development of areas of need. Surveys will be taken throughout the year to adjust, modify, or add professional development as indicated by teacher needs. All new topics will be provided starting with the Digital Citizenship being required for all teachers and administrators. Then topics will be provided on and individualized, small group or whole group basis depending on the need. 100% of the teachers will be provided professional development according to mandatory, professional growth plan, or/and observations on a as needed basis.

Technology Goals

Goal 1

Continue to use a web hosting solution to provide teachers and principals an easier way to communicate with parents and students after school hours.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Using a web hosting service, teachers, principals, and staff members (when needed) will have the ability to easily post information to the schools' web site as one of their communication tools for parents, students, and the community as a whole.	Teachers will have the ability to post homework or open discussion groups for students to collaborate online after school hours. Principals will have the ability to update school communications quickly and easily. Staff members (coaches, FRC/YSC) will have the ability to post updates to schedules and/or upcoming community events	Teacher web pages up to date School web pages up to date District web pages up to date	07/2015 – On-Going	DTC Network Administrator Teachers Principals Staff Members	General Fund
Students will have the ability to retrieve missed homework assignments or join discussion groups online with classmates and teachers	Student's engagement will increase by using the tools that they are more aware of in their everyday environment. Students will not fall behind in missing assignments, as they will be available online for retrieval.	Homework assignments posted on teacher web page.	07/2015	Teachers Principals	N/A

Goal 2

Upgrading/Replace the current data cabling from Category 5 and Category 5e in both Lincoln Elementary and Dayton Middle/High School's classroom, office, computer lab, and general areas to Category 6 to provide high speed bandwidth access to Teacher, Student, Staff, and Administrator desktop computers.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Replacement of data cabling with hi-speed cabling will prepare the infrastructure for the next generation learning environment.	Ensure students and teachers have access to a hi-speed data network infrastructure to enhance their learning environment.	Access to content locally and externally on the Internet will speed up.	07/2015	DTC	e-Rate General Fund

Goal 3

Continuation of purchasing smart classroom technologies to provide teachers the technology tools necessary to teach in the 21st Century.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Continue to purchase LCD projectors, larger viewing screens, and enhanced audio systems for the classroom	Teachers will have the necessary 21st Century tools to instruct to an ever changing student populous	Up-to-date equipment for teacher use and resources	7/2014 –On-Going	CIO District Administrator	General Fund Seek

Goal 4

Parents and community members will continue to be actively involved in our school organizations and take a "stakeholder friendly" approach to our district. Foster an environment that welcomes all members of the community and promote a safe environment for all stakeholders.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Continue to provide local phone service, long distance phone service, and cellular service throughout the district.	Phone service in our schools & classrooms provides a valuable means of communication between our administrators, teachers, parents and other community members. These services allow students and teachers to reach beyond the regular classroom walls and our community to communicate with other parties during the instructions process.	Easy access to school administrators and faculty and staff	7/2015 – 6/2016 7/2016 – On-Going	CIO District Administrators	E-Rate General Fund
Administrators will continue to use the district cell phones to contact parents, district staff or emergency personnel (as needed) to help ensure safety of the students and school.	Students will have a more positive and safe environment	Up to 24 hour contact to District and School Administrators	7/2015 – 6/2016 7/2016 – On-Going	CIO District Administrators	E-Rate General Fund General Fund
All district employees will continue to use the district phone system for normal daily telecommunications functions. Training will be provided as	Employees will be better able to navigate the various features of the phone system. Students will have a more positive and safe environment.	Call Logs	07/2015 – On-Going	CIO	N/A

needed.					
Employees will be trained to implement the technology available through the current phone system (i.e. voicemail, passwords, etc.) as necessary	Employees will be better able to navigate the various features of the phone system. Students will have a more positive and safe environment.	Technology use in the classroom	07/2015 – On-Going	School Administrators	N/A
Promote and strengthen communications between home and school through district resources such as website, e-mail, cable channel 20, programming, phone calling systems, brochures, newspaper and newsletters.	Communications between home and school will strengthen. This will result in decreased parent/student frustrations, increased students achievement, and an increase in community awareness of school projects & programs.	Website up to date Cable Channel up to date Logs of phone calling system Monthly newspaper articles Weekly newsletters from schools	07/2015 – On-Going	CIO District Administrators School Administrators Teachers	General Fund

Technology Goals – Evaluation

The plan will be evaluated each semester and again in July. The plan will also be monitored through walkthrough devices and lesson plans. Student work will be evaluated to determine how technology is being used in the classroom. Equipment will be evaluated as to the usefulness in the classroom, lab setting and server environment.

If the need arises for a change that can be implemented will be done immediately. If funds are not available the changes will be put first on the priority list. If funds are not needed to implement changes they will be completed as soon as possible depending on training needed. These changes will be discussed at the monthly technology meetings and acted on immediately.

Budget Summary

Note: duplicate this page for each year as needed (if a multiyear plan) **Year – 2015-2016**

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)
Training/Professional Development					$3000.00	$2,000.00 Professional Development $500.00 General Fund
Communications – website, e-mail, channel 20 programming, brochures, newspaper and newsletters, and Call System						$5,400.00 General Fund
Local phone service/long distance service			$15,120.00			$6,480.00 General Fund
Cellular Phone Services			$2,699.51			$5,605.93 General Fund
Purchase, replace or upgrade equipment for classroom and labs Student workstations Hardware/software, system requirements, multimedia equipment						$63,028.89 General Fund And Seek
Lease of 28 desktop computers over the course of 3 years for the Lincoln Elementary School building						$7,180.63 SBDM Funds
Infrastructure data cabling – Lincoln Elementary and Dayton High Schools			$49,093.45			$8,663.55 General Fund
Infrastructure data cabling – Dayton Board Office						$6,973.00 General Fund
TOTAL			$66,912.96		$3000.00	$105,832

Budget Summary – Narrative

The district will prioritize the needs for the schools to meet all funding sources in order to support the goals and objectives in this plan. The District Technology Coordinator will continue to apply of E-Rate funding where applicable following the guidelines set by Universal Services. Professional Development will be provided at the district expense to make sure all teachers, administrators, and staff has the ability to meet the needs of all students and enhance learning. The curriculum provided will have a greater impact on student learning with additional resources.

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.