Technology Plan:

Metcalfe County Schools

Edmonton, Kentucky

www.Metcalfe.kyschools.us

Date: April 30, 2018

Plan Start Date: October 1, 2018

Plan Expiration Date: September 30, 2019

Approved Date:

Acknowledgments

School Library Media Specialists

Anita Love, Metcalfe County High

**Kelly Crawhorn,
Metcalfe County Middle**

Stephanie Hampton,

Metcalfe Co. Elementary School

District Instructional Supervisors

Bennie Stephens

Superintendent

Dr. Benny Lile

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Executive Summary

Our Vision Statement: "Metcalfe County Schools will provide each and every student with an educational program facilitated in a safe and secure environment leading to college and career readiness while preparing them to become economically independent and socially responsible members of society."

Our Mission Statement: "Metcalfe County Schools: On the Move…Improving Lives.

The Metcalfe County School System is focused on the goal of seeing that all children perform at the proficient level as required by the state and federal Departments of Education.

With approximately 1,700 students in our district, we are striving to make our technology an integral part of the curriculum with use of the Internet, instructional software for grades K-12, and appropriate supporting technology. This creates an environment where teachers and students enhance their teaching and learning experiences.

The Metcalfe County School District seeks to strengthen communication with parents and the community at large with our district and school web sites that contain detailed information about school activities. In addition to providing a high speed network and Internet connection, efficient and adequate telecommunication services (phone service, long distance, and cellular phone service) will be maintained for effective internal communication between staff, and external communication with parents/guardians, community members and state officials.

This technology plan documents our goals and objectives for the term indicated. We will be assisting our schools to incorporate this plan into their schools' Comprehensive Improvement Plan. Functional uses of technology are embedded throughout the district's Comprehensive District Improvement Plan (CDIP).

This technology plan has been aligned with the Kentucky Master Plan for Education and the Metcalfe County School District Comprehensive District Improvement Plan.

Our School District's Motto: Success! Whatever it takes. Each and every school, each and every student, each and every day.

Planning Process / Methodology

The Commonwealth of Kentucky has a very detailed planning process to evaluate all phases of K-12 education in each district. The Kentucky Department of Education states:

> "School Improvement provides a data-driven, research-based framework for defining goals and objectives for improving student learning and for selecting and implementing strategies to improve the instructional and organizational effectiveness of every school. The process of Improvement Planning in Kentucky is used as the means of determining how schools and districts will plan to ensure that students reach proficiency and beyond by 2016. The process focuses school and district improvement efforts on student needs by bringing together all stakeholders to plan for improvement, by focusing planning efforts on priority needs and closing achievement gaps between subgroups of students, by building upon school and district capacity for high quality planning, and by making connections between the funds that flow into the district and the priority needs in schools."

At the district level, administrators, teachers, support staff, and others are involved in reviewing current practices for making recommendations for improvement. The scope of planning looks at all areas instruction and support, including but not limited to the integration of technology into the curriculum, increasing the ability of teachers to teach, and enabling students to reach the challenges of the state's academic standards. This procedure finally produces its Comprehensive District Improvement Plan (CDIP). The CDIP is reviewed on an annual basis and adjustments made as needed. The role of technology is also reviewed during this procedure. The district's CDIP can be viewed at: http://www.metcalfe.kyschools.us/linksForms.aspx

In addition to the above planning process, the district's technology needs are evaluated on an ongoing basis to provide the very best possible support for the school system. District staff conduct walk-throughs and observations of technology use in classroom instruction, network traffic is monitored regularly, and technology work orders are reviewed to track any problems relating to technology equipment and services, including telecommunication services. Newer equipment and processes are tested and evaluated on an ongoing basis to see if improvements can be made to help the instruction and improve network and telecommunication services. As newer and better ideas and equipment are found, plans are made to incorporate them into the budget process and into the application process for e-rate funding.

Technology Vision and Goals

Goal 1

Utilize technology to support the curriculum and improve student achievement with an emphasis on classroom integration to facilitate implementation of the Kentucky Core Academic Standards and the Common Core State Standards: http://education.ky.gov/curriculum/docs/pages/kentucky-core-academic-standards---new.aspx

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Collaborate to increase the average combined reading and math state assessment scores to 69.1% at the elementary school level, 67.5% at the middle school level, and 72.0% at the high school level by 6/30/2018 as measured by the Kentucky Accountability System.	Classrooms in grades 3-12 will utilize CANVAS Learning Management System to provide online instruction to students in order to meet student needs. Technology support personnel will be utilized to provide a resource for teachers in the classroom.	Audit student performance through classroom observation, regular testing, ACT and KCCT.	2018-19	Bennie Stephens	Local, KETS, Title I, other federal.

Goal 2

Promote the use of research-based technology applications and strategies designed to increase achievement among all students.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Use research-based software applications and	Increase student achievement	Teacher observations, classroom testing,	On-going	Bennie Stephens	Local, state and federal funding.

testing, including APEX, Triumph Learning and ACT.		ACT and KCCT			

Goal 3

Provide adequate and efficient telecommunications services and network services for internal and external communication between staff members, as well as effective communication with parents/guardians, community leaders, state and federal officials.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
All students will receive at least one positive contact by phone, school conference, and/or home.	Improve student culture	Administrative observation, teacher reports on student communications	Continuous	Instructional supervisors, principals, guidance counselors and teachers	Local, state, federal funds.

Student Technology Literacy Skills

Metcalfe County students will demonstrate the use of appropriate technology at each grade level to communicate, solve problems, and access, manage, integrate, evaluate, and create information to improve learning in all subject areas and to acquire lifelong knowledge and skills so that they will be college and career ready. The school district will follow the Core Academic Standards as outlined by the Kentucky Department of Education.

Link   totheCoreAcademic   Standards:http://education.ky.gov/curriculum/standards/kyacadstand/Pages/default.aspx

Goal 1

Students demonstrate a sound understanding of the nature and operations of technology systems.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Various types of technology and telecommunications are used in direct and indirect instruction	Students will use computers and other types of technology to collect, organize and communicate information and ideas.	District and school-level observations, writing assignments, classroom assignments, quizzes, tests and demonstrations.	2018-19	Principals and teachers.	Local, state, federal funds.

Goal 2

Reduce the percentage of students scoring novice in reading from 32% in 2017 to 16% in 2020 and math from 28% in 2017 to 14% in 2020.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Technology and productivity tools will be used effectively and efficiently measure student progress and provide interventions as needed.	Students will improve academic achievement by participation in intervention programs such as Read 180, System 44, SRA, Accelerated Reading, Accelerated Math, Timez Attack and Fast ForWord.	Tests and reports provided by the intervention software programs, observations, testing.	On-going	Principals, district instructional supervisors and guidance counselors.	Local, state, federal funds.

Integration of Technology into Curricula and Instruction

Technology integration will help students make useful connections between what they learn in each content area with emphasis on college and career readiness.

Goal 1

Use appropriate technology and strategies to solve content-specific problems in the real world.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Determine which technology is useful and select the appropriate tool.	Use technology, such as Kindles, Nooks and iPads to motivate students to read more frequently	Teacher observations, successful completion of reading competitions	On-going	Teachers, Library Media Specialists	Local, State, Federal Title 1 and 21st Century School Improvement Grant

Goal 2

Increase the percentage of students who are college and career ready from 51.6% to 77%.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Computer data from ACT/PLAN/Explore and MAP will be utilized to obtain CCR for every	Analyze data to determine where improvement gaps need to be addressed to	Testing data	On-going	Principals, guidance counselors, teachers and district administrators	Local, state, federal funds.

student.	prepare students for rigor and the next grade level.				

Staff Training/ Professional Development Goals

Goal 1
Collaborate to develop effective professional development opportunities as identified by the teachers' individual growth plans.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Evaluation	Timeline	Person(s) Responsible	Funding Source
Evaluate all areas of instruction and support.	Throughguided planning sessions instructional coaches/principals will collaboratively identify strategies to improve instruction.	Planned professional development in all content areas	2018-19	Instructional supervisors, principals, curriculum specialists and teachers	Local, state, federal funds.
Integration of technology into the curriculum	Increaseteachers' capacity to teach effectivelyutilizing the TELL KY survey.	Planned professional development, leadership observation, weekly guided planning.	2018-19	Instructional supervisors, principals, curriculum specialists and teachers	Local, state, federal funds.

Current Technology and Resources

All schools and facilities in the district are networked and there is Internet and phone access in every classroom and office area in the district. The computer network on the Edmonton campus (Metcalfe County Elementary School, Metcalfe County Middle School, and Metcalfe County High School) is comprised of fiber optic cabling.   The Board of Education Office is provided data and internet access through a Metro-E circuit (100 mbps).

There is an ever-increasing need for more bandwidth as schools increase their reliance on streaming media, shared audio and video media, virtual courseware, and larger amounts of shared data. There is also a need to update hardware and software to make better use of new developments. Therefore, it is the district's goal to upgrade the network backbone with 1G to the desktop while providing wireless connectivity for various devices. In order to accomplish this goal, network equipment (routers, switches, cabling, access points and other necessary equipment and supplies) will be purchased to upgrade the district's network. Wireless access will also be installed according to KETS standards to accomplish the goal of learning anytime, anywhere. A signal survey will be accomplished to determine best location for the wireless access points, and the necessary equipment will be purchased and installed. In addition to the networking equipment, DNS/DHCP, e-mail, and web servers will be maintained and updated to meet the goal of providing Internet access for instructional purposes as well as assisting the goal of providing effective communication described above. These servers will also require the purchase of appropriate network operating systems, including the software to support e-mail and web services. In addition, computers, printers, and other network nodes will be purchased, installed, and maintained to complete the process of bringing the Internet and network to students, staff, teachers, and administrators. The district seeks to meet the standards, policies and management recommended in the Kentucky Department of Education's KETS Master Plan.

The school district's computer network infrastructure will be maintained to meet Kentucky Department of Education and USAC requirements.

Evaluation

The Commonwealth of Kentucky has a very detailed planning process to evaluate all phases of K-12 education in each district. The Kentucky Department of Education states:

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In addition to the above planning process, the district's network and technology needs are evaluated on an ongoing basis to provide the very best possible support for the school system. Network traffic is monitored on a weekly basis, technology work orders are reviewed in monthly meetings of the technology department with School Technology Coordinators to track any problems relating to technology equipment and services, including telecommunication services. Newer equipment and processes are tested and evaluated on an ongoing basis to see if improvements to network and telecommunication services can be made. As newer and better ideas and equipment are found, plans are made to incorporate them into the budget process and into the application process for e-rate funding.

Performance Goal 1

Evaluate the school district's network and technology needs.

Action Plan: Strategies/Activities

Indicator	Target	Tools/Methods Used	Timeline	Person(s) Responsible	Funding Source
Evaluate and plan for newer instructional and support equipment.	Increase teachers capacity to teach and remove learning barriers for students	Meet with School Technology Coordinators, equipment vendors, workshops, conventions, study industry periodicals.	On-going	Chief Information Officer	Local, state, federal funding sources.

Performance Goal 2

Evaluate successful instructional use of technology

Action Plan: Strategies/Activities

Indicator	Target	Tools/Methods Used	Timeline	Person(s) Responsible	Funding Source
Successful instructional use of technology	Increase teachers capacity to teach	Observation and evaluation of teachers by principals and appropriate district staff.	On-going	Principals and instructional supervisors	Local, state, federal

Budget Summary

Technology use in the 21st century has become a vital component of all aspects of life. For students in Kentucky to be contributing citizens, they must receive an education that incorporates technology literacy at all levels. Technology literacy is the ability of students to responsibly use appropriate technology to communicate, solve problems, and access, manage, integrate, evaluate, and create information to improve learning in all subject areas and to acquire lifelong knowledge and skills in the 21st century. The Metcalfe County School District will expend funds appropriate to achieve the goals, strategies and outcomes listed in this report.

School Year: 2018-2019
Budget Summary

Acquired Technologies and Professional Development	Ed Tech Competitive Title IID	Ed Tech Formula Title IID	ARRA Formula Title IID	ARRA Competitive Title IID	E-Rate	NCLB/other than Title IID	KETS	Other (Specify)
Computer hardware, software Network, computer basic maint.							$58,000	$20,671 (local) $15,000 (local)
Professional Devel.								$14,000 (local)
Individual School Tech. and software								$85,000 (local, Title I, Title II, local)
TOTAL								$192,671

Attachments/Appendices (Optional)