

DISTRICT TECHNOLOGY PLAN

DISTRICT NAME Boone County Schools

LOCATION Florence, KY

PLAN YEAR(S) 2021-2022



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Planning Team

District Staff	
Kyle Berberich - Technology Resource Teacher	Mary Ann Rankin - Director of Technology
Bonita Bolin - Instructional Technology Coordinator	David Staton - Network Administrator
Randy Deaton - Network Manager	
Cathy Himmelmann - Technology Resource Teacher	
Building Staff	
Lenora Broome - Teacher RA Jones Middle School	Mike Hughes - Teacher Boone County High School
Cher Caldwell - Teacher Ryle High School	Pam Jackson - STC Goodridge Elementary School
Angela Dammeyer - STC/Teacher New Haven Elementary School	Jessica Klosinski - STC/Teacher Erpenbeck Elementary School
Danielle Dierig - Teacher Cooper High School	Amanda Leatherman - STC/Teacher Longbranch Elementary School
Craig Dunlap - STC/Teacher Yealey Elementary School	TW Loring - Principal Collins Elementary School
Laura Hicks - Teacher Collins Elementary School	Bridget McQuade - STC/LMS Ryle High School
Tammy Huff - STC Collins Elementary School	Darla Payne - Principal Ockerman Middle School

Previous Year's Strategies Evaluation

When reviewing our previous Technology Plan, we find the following goals still appropriate for this plan:

Curriculum and Instructional Integration Goals

- Increase in use and delivery of content with multiple digital tools such as Canvas, Google Classroom.
- [Teaching with Technology](#) website updated to include [Distance Learning Tools](#) resources.
- [Recordings of previously offered trainings](#) available for on-demand assistance and availability to request future trainings.
- Increased use of [District Programs Dashboard](#) - making access to digital tools more streamlined and user friendly.

Staff Training/Professional Development Goals

- By popular demand, Sphero Academy focusing on Trial and Error, Grit, Persistence, Problem Solving with embedded technology
- Google Certified Educator workshops
- Monthly Technology Department meetings for common planning between hardware and software
- Quarterly School Technology Coordinator meetings to share strategies and processes that continue to move technology integration forward
- Google Team Drives created for School Technology Coordinators and all Boone County staff for easy access to resources
- Classified Staff Google trainings

Technology Goals

- Infrastructure updated according to replacement cycle plan
- Erate funding maximized
- Chromebooks refreshed
- Establish plan for sustaining Kindergarten Chromebook replacement cycle

New to this plan:

- Reviewing and developing resources for the new [Kentucky Technology Standards](#)
- Greater emphasis on Multi Factor Authentication implementation

Upcoming Year's Strategies Preview

The Boone County Technology Plan aligns with and supports the instructional and operational goals of the district to assure technology is utilized by all staff and students in transformative ways to enhance student achievement and to make real-world global connections.

The Boone County School District is committed to ensuring every student is college, career and life ready. As the third largest district in the Commonwealth of Kentucky, the district consists of 15 elementary schools, 6 middle schools and 5 high schools - educating over 20,000 students.

Boone County is a district that sets high expectations for students and provides a supportive atmosphere that produces student achievement. Teachers function as coaches, mentors, information managers, and, in general, as facilitators of knowledge. Teachers have knowledge and skills to integrate technologies in a manner that will address specific needs and learning styles of students. Schools are focused on academic rigor, real world relevance and focused relationships with our parents, students and community.

The Technology Plan embraces and supports the Strategic Plan with all learners demonstrating 21st century skills and knowledge that will prepare them for success in college, career and life. By providing students and staff with accessible and effective technologies, all stakeholders will have the opportunity to develop job-embedded skills that enhance learning, increase productivity and prepare for the future. Pedagogy is the driver. Technology is the tool. With technology tools, teachers and students will experience innovative learning, content creation, and make real-world connections. In Boone County, we do not just use technology. We use technology to create learning.

Major activities in this plan include:

- Continued 1:1 support for 3 - 12 grades
- Continued implementation of infrastructure replacement cycles
- Continued use of Erate opportunities
- Increased emphasis on data security: refine district policies, multi factor authentication
- Instructional focus and monitored use of implementation of digital tools
- Support for any time, anywhere learning

KETS Master Plan Areas of Emphasis

Connected to the Future Ready Framework

The Future Ready Framework identifies seven Gears to assist districts in developing a roadmap for student success through personalized student learning and collaborative leadership. The KETS Master Plan has identified 37 Areas of Emphasis connected to the Future Ready Framework and are categorized as either *1) Areas of Acceleration (AA)* or *2) Areas of Improvement (AI)*. The “areas of acceleration” are considered big wins, successes, and major milestones of the KETS are identified for continuation work. The “areas of improvement” address emerging areas based upon growth or decline metrics, research, needs assessments, and reporting by Kentucky school districts.



Use the Areas of Emphasis and Future Ready Framework as a lens to analyze current trends, initiatives, needs and goals of your district. Link the work of this new plan identified by your planning team to the Gears and Areas of Emphasis of the KETS Master Plan on the following pages. There is no expectation to address all 36 Areas of Emphasis of the KETS Master Plan. Any strategy that involves Erate, please include in the Budget & Resources gear. If your district has lease agreements (i.e.; device, fiber, etc.), be prepared to reference the quantity during the final submission process.








Robust Infrastructure & Ecosystem

Future Ready Gear

KETS GUIDING PRINCIPLE – A robust infrastructure is one that delivers the device, network and support needs of staff and students to create personalized learning environments using digital tools and resources.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

 AA-1	Continue to provide nation’s first, fastest, highest quality, and most reliable internet access to 100% of Kentucky’s public schools
 AA-2	Continue to ensure equity and standardization for delivery of device, network, data and support creating best in class staff and student digital experiences AND provide a system of shared/brokered/managed services maintaining low infrastructure costs and providing support structures promoting the use of personalized learning environments
 AA-3	Continue to create a culture of digital connectedness through all- the-time, everywhere, always on digital opportunity and access with emphasis on dense Wi-Fi throughout schools (<i>also including home access, Wi-Fi buses, school and classroom Wi-Fi, etc.</i>)
 AA-4	Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services
 AI-1	Improve ease of access for students and staff through continued progress toward 1:1 student to computer ratio utilizing increased amounts of mobile devices (<i>fewer traditional computer labs</i>)

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-3	Refresh wireless access points at Ryle, New Haven, Longbranch, Kelly, Thornwilde, Ockerman Elem, RISE	Tech Dept	July 1, 2021 - June 30, 2022	Erate and General Fund	\$374,120.00	Infrastructure will continue to support instructional practices
AA-2	Rewire Kelly, Burlington, Goodridge, Florence, Ockerman Elem, New Haven to 6a cabling	Tech Dept Finance	July 1, 2021 - June 30, 2022	General Fund	\$782,140.63	Infrastructure will continue to support instructional practices
AA-1	Year 1 of 5 year fiber contract. Each Boone County building will have a 1GB connection to the Board of Education	Tech Dept	July 1, 2021 - June 30, 2022	Erate and General Fund	\$167,400.00	Infrastructure will continue to support instructional practices
AA-4	Lightspeed Relay Cloud implementation	Tech Dept	July 1, 2021 - June 30, 2022	KDE Funded	KDE Funded	Increased monitoring and reporting on instructional tool use and bandwidth traffic
AA-2	Refresh 3rd, 6th and 12th grade Chromebooks	Tech Dept Finance Principal	July 1, 2021 - June 30, 2022	Various Sec 7	\$1,909,040.00	Continued support and access to digital instructional tools and resources
AA-3	Year 2 of 5 year agreement of phone system maintenance	Tech Dept	July 1, 2021 - June 30, 2022	General Fund	\$54,000.00	Phone system will continue to support instructional and safety practices.
AA-1	Refresh of Data Center located at Central Office providing network services to the district	Tech Dept	July 1, 2021 - August 1, 2021	Erate and General Fund	\$357,158.72	Infrastructure will continue to support instructional practices

AA-1	Upgrade district core switch located at Central Office providing network connectivity to the district	Tech Dept	July 1, 2021 - August 1, 2021	General Fund	\$39,979.60	Infrastructure will continue to support instructional practices
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Data Security, Safety & Privacy

Future Ready Gear

KETS GUIDING PRINCIPLE – Security, safety and privacy of student data is a cornerstone of digital learning. Policies and procedures are enacted at the state, district and school levels that work in conjunction for this purpose. Student data are then utilized by data fluent educators for improved decision-making leading to increased learning for students.

Areas of Emphasis: Areas of Acceleration (AA)  / Areas of Improvement (AI) 

	AA-1	Continue to support districts in securely accessing and managing key student and administrative data sets through improved user experiences, refined data collection processes, continuously updated policies and practices regarding student data security, and timely access to data sets that improve the depth and efficiency of student learning (<i>Infinite Campus, Early Warning, MUNIS, eTranscripts, School Report Card</i>)
	AA-2	Continue to identify key aspects of data security regularly to build upon the current systems, procedures and policies to remain a leader in mitigating emerging threats (<i>acceptable use policies, firewall updates, data privacy studies, digital citizenship, content filtering</i>)
	AA-3	Continue to utilize adoption metrics or trending data for planning purposes that allow EdTech leaders to identify what's working and what's not working based upon data quality and evaluate current systems and solutions to determine effectiveness and future direction (<i>annual auditors, TELL survey, Technology Activity Report, Digital Readiness, Data Quality Study, Data Quality Campaign, BrightBytes, SpeakUp</i>)
	AA-4	Continue to migrate key administrative and student data sets to secure cloud-based services that allow anywhere, anytime secure access for the improvement of student learning (<i>Infinite Campus, Early Warning, School Report Card, MUNIS</i>)
	AA-5	Continue supporting teacher efforts in taking ownership of digital citizenship skills and education their student in the same skills to foster a secure digital learning environment
	AI-1	Educate and support districts in the importance of personnel with duties related to student/staff data quality, security and privacy as well as bringing data privacy to the “radar screen” of teachers/staff (<i>The People Side of EdTech</i>)
	AI-2	Kentucky K-12 Data systems are first-class but we need to do much better with district using the data available to them as well as providing visual data analytic tools allowing the data to be better understood and more interesting to the average person who does not have a technology and data background

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-2	Continue to review the Data Security and Breach Best Practice Guide and submit security efforts to the school board	Director of Technology	July 1, 2021 - August 1, 2021	n/a	n/a	Board meeting minutes will document the submission. Updates to the district strategies will reflect successes and improvement items.
AA-2	Review of Acceptable Use Procedures	District Technology Committee	January 1, 2022 - April 1, 2022	n/a	n/a	District Technology Committee meeting notes and board approval of inclusion in the district Code of Conduct
AA-2	Review user rights to digital tools and hardware including but not limited to: Workstation Admin Rights Network Rights Infinite Campus Digital Instructional Tools	Tech Dept	July 1, 2021 - June 30, 2022	n/a	n/a	Reports from various systems will indicate that rights are accurate based upon job responsibilities
AA-4	Data synchronization between systems is functioning as expected	Tech Dept	July 1, 2021 - June 30, 2022	n/a	n/a	Regular data samples will indicate that data is accurate and students will have access to instructional tools depending upon the data sync
AI-1	Provide greater opportunities for staff and students to demonstrate safe, legal and responsible use of information and digital tools	Tech Dept Principal	July 1, 2021 - June 30, 2022	n/a	n/a	Increased inclusion of digital citizenship instruction in classrooms and staff meetings












Budget & Resources

Future Ready Gear

KETS GUIDING PRINCIPLE – The Master Plan, as well as district and school technology plans, are aligned to the vision of 21st century skills for students and staff. Revenue streams are aligned to account for the recurring and nonrecurring total cost of ownership to support the 21st century learning environment in a manner that reflects good stewardship of tax dollars to include devices, infrastructure, support, data and human services.

Areas of Emphasis: Areas of Acceleration (AA) / Areas of Improvement (AI)

 AA-1	Continue to maximize local and state education technology expenditures through a system of shared/brokered/managed services
 AA-2	Continue use of long-term planning strategies that allow for continuity of initiatives and systems (<i>ex. Accounting for cost of ownership over the lifespan of equipment so monies are allocated for repairs/upgrades</i>)
 AA-3	Continue to leverage all available state and federal funding opportunities to address required basic cost of living increases, previous budget cuts of basic services, projected growth by districts (<i>e.g. Internet consumption</i>) while maximizing education technology programs and initiatives (<i>Technology Need, E-rate</i>)
 AA-4	Continue to migrate key administrative and student data sets to secure cloud-based services that allow anywhere, anytime secure access for the improvement of student learning (<i>Infinite Campus, Early Warning, School Report Card, MUNIS</i>)
 AA-5	Continue supporting teacher efforts in taking ownership of digital citizenship skills and education their student in the same skills to foster a secure digital learning environment
 AI-1	Make districts aware of position/roles requiring technology-related duties in support of technology and instruction (<i>The People side of K-12 EdTech</i>)
 AI-2	Make districts aware of how to reduce expenditures on printing/print services (<i>both in consolidated contract pricing as well as shifting from paper to digital experiences</i>)
 AI-3	Evaluate the need and explore new contracts that drive costs down for statewide summative online assessment, learning management systems, printing services and interim based assessments
 AI-4	See an increased percentage of districts examining which education technology investments are or are not being maximized

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-3	Take full advantage of all Erate funding opportunities	Director of Technology	Meet timelines as dictated by the Universal Service Administrative Company (USAC)	n/a	n/a	Eligible services and district infrastructure will remain current and the district will receive a 60% discount
AA-3	Continue to match KETS Offers of Assistance and submit required reports: Technology Activity Report Digital Readiness Survey District Technology Plan	Director of Technology Director of Finance	July 1, 2021 - June 30, 2022	n/a	n/a	Schools will continue to maintain/update hardware and purchase district approved digital tools
AI-4	Investigate ways to better monitor digital tool use - including Lightspeed Relay Cloud provided by KDE	Director of Technology Instructional Technology Coordinator TRTs Learning Support Services	July 1, 2021 - June 30, 2022	n/a	n/a	Monitoring strategies will drive conversations and decisions on whether the district continues or eliminates support for digital tools
AA-2	Continue 1:1 support for 3rd - 12th grade Chromebooks	Tech Dept Instructional Technology Coordinator	July 1, 2021 - June 30, 2022	n/a	n/a	Continued support and access to digital instructional tools and resources
AA-1	Continue to use state contracts and co-op purchasing opportunities	Director of Technology	July 1, 2021 - June 30, 2022	n/a	n/a	Best possible pricing will be secured for district purchases
AI-2	Continue to support print service tools such as PaperCut	Network Administrators Principals	July 1, 2021 - June 30, 2022	Various	Various	Reduced printing costs








Partnerships

Future Ready Gear

KETS GUIDING PRINCIPLE – Connecting students and educators to the local and global community is a key factor to student success. The Master Plan will continue to provide opportunities for trusted relationships to build those connections as well as increase communication and transparency with shareholders, including families, districts, vendors, regional education collaboratives, postsecondary institutions and business/industry, in support of student learning and preparation beyond K-12.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

 AA-1	Continue to build trusted relationships with shareholders (families, districts, partners) that will reduce risk as well as increase transparency and communication (<i>districts, vendors, higher-education, regional cooperatives</i>)
 AA-2	Continue to utilize avenues of communication with shareholders allowing pertinent information and dialog to further student learning efforts (<i>Webcasts, BrightBytes, Technology Activity Report, KETS Service Desk, Office of Education Accountability studies, independent studies, etc.</i>)
 AA-3	Continue to utilize tools engaging postsecondary institutions, community members, districts and families in student learning and life after K-12 (<i>eTranscripts, School Report Card and Dashboard tool, Infinite Campus parent and student portal, KDE Open House, Digital Readiness Survey</i>)
 AI-1	Partner with postsecondary pre-service teacher and principal programs to provide support in candidate preparation
 AI-2	Encourage postsecondary institutions to host STLP events and /or more fully maximize the opportunity to showcase the university and its programs while students are on campus



KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1, AA-2	Continue to participate in region and state meetings: Region CIO, Region Technical, KySTE, STLP, DLC	Tech Dept	July 1, 2021 - June 30, 2022	n/a	n/a	Relationships will be built and sustained
AA-1	Continue to share district events, successes and opportunities via various social media resources and district website	Administrators Teachers Students	July 1, 2021 - June 30, 2022	General Fund	\$20,000	Stakeholders will be informed regarding the events, successes and opportunities in the school district
AI-1	Continue to support pre-service teachers by allowing them access to the network and district resources: BYOT, Canvas, Google Classroom credentials	Tech Dept Principals	July 1, 2021 - June 30, 2022	n/a	n/a	Student teachers will have a positive experience











Digital Curriculum, Instruction & Assessment

Future Ready Gear

KETS GUIDING PRINCIPLE – A digital learning experience is fostered by a teacher or coach with the use of rich digital instructional materials that are vetted to the rigor of Kentucky Academic Standards. A robust digital environment provides students with the opportunity to assess their own learning/progress.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

 AA-1	Continue to provide access to instruction digital content which further aligns to the Kentucky Digital Learning Guidelines
 AA-2	Continue providing opportunities for students to demonstrate learning connected to and through technology (<i>empowering students through technology with STLP, IT Academy, etc.</i>)
 AA-3	Continue to finalize and partner with Career and Technical Education (CTE) to promote Kentucky approved K-12 Computer Science Standards and Technology/Digital Literacy Content Standards (<i>based on International Society for Technology in Education standards</i>) for ALL students
 AA-4	Continue providing access to online assessment tools that allow teachers and administrators to assess student learning, provide timely feedback to students and make curriculum decisions (<i>online formative assessment tools, interim based assessments, and summative assessments</i>)
 AA-5	Continue to provide districts/classrooms access to digital instructional materials through an equitable of robust digital experience
 AI-1	Identify digital content and tools (curriculum, instruction and assessment) designed to have the highest impact and value (e.g. is the technology making or not making an instructional and learning difference?), including frequency of use by teachers and students
 AI-2	Create a closer connection with Career and Technical Education to expand information technology and computer science career pathway offerings specifically related to computer programming/coding and increase exams available through IT Academy
 AI-3	Play a vital role in implementation of summative online assessment and school report card and dashboard tool of the new assessment and accountability system

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Continue to provide access and support for digital tools (ie: AD Management, Helpdesk, UMRA, Amplified IT, PDQ Deploy, etc)	Tech Dept	July 1, 2021 - June 30, 2022	General Fund	\$130,000.00	Consistent access will continue to support instructional practices
AA-4, AA-5	Use of digital tools to guide instructional practices and decisions (ie: Canvas, Dreambox, Academic Edge, etc)	Tech Dept Learning Support Services	July 1, 2021 - June 30, 2022	Various	\$651,784.30	Digital tools will support instructional needs and guide instructional decisions
AA-1	Continue to support and update websites and the Infinite Campus Technology Tab for easy of access to digital instructional tools: District Programs Dashboard District Programs Log In Info Distance Learning Tools Teaching with Technology	Tech Dept	July 1, 2021 - June 30, 2022	n/a	n/a	Students and teachers will have easier access to digital instructional tools both on site and off site (ie NTI days)
AI-1	Investigate ways to better monitor digital tool use with Lightspeed Relay Cloud provided by KDE	Director of Technology Instructional Technology Coordinator TRTs LSS	July 1, 2021 - June 30, 2022	n/a	n/a	Monitoring strategies will drive conversations and decisions on whether the district continues or eliminates support for digital tools
AA-3	Develop resources and encourage integration with the Kentucky Technology Standards	Instructional Technology Coordinator TRTs	July 1, 2021 - June 30, 2022	n/a	n/a	Inclusion of standards in lesson plans





Personalized Professional Learning

Future Ready Gear

KETS GUIDING PRINCIPLE – Digital learning expands the access to quality strategies and experiences for educators beyond the traditional methods of professional development. A culture of digital collaboration, workflow and relationships allows educators to build skill sets and instructional best practices with colleagues globally. This approach of increased access and flexibility for professional learning ultimately leads to greater success for students.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

 AA-1	Continue building a culture of digital collaboration and connected digital relationships that allow administrators to support and encourage the use of digital tools by staff for professional learning
 AI-1	Provide district with guidance and support to determine crucial learning needs of teachers resulting in more professional learning opportunities related to digital learning tools

DISTRICT TECHNOLOGY PLAN

Boone County Schools



KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Continued support to determine the best tool to meet the instructional objective	Tech Dept Learning Support Services Instructional Coaches	July 1, 2021 - June 30, 2022	n/a	n/a	Lesson plans, classroom visits, training logs
AA-1	Continue professional development designed to meet individual needs via online courses, face to face meetings, etc.	TRTs Instructional Coaches	July 1, 2021 - June 30, 2022	n/a	n/a	Lesson plans, classroom visits, training logs
AA-1	Continue quarterly School Technology Coordinator meetings	Director of Technology Network Manager Instructional Technology Coordinator	July 1, 2021 - June 30, 2022	n/a	n/a	Meeting notes, training logs
AA-1	Continue professional development designed for classified staff	TRTs	July 1, 2021 - June 30, 2022	n/a	n/a	Training logs, requests for specific content





Use of Space & Time

Future Ready Gear

KETS GUIDING PRINCIPLE – The personalized learning environment for students requires reimagining the use of school space and time. Virtual instruction, cloud-based learning tools, digital instructional material, digital collaboration, digital workflows and digital relationships, etc., assist in providing the vehicle for anywhere, anytime learning.

Areas of Emphasis: Areas of Acceleration (AA)  /Areas of Improvement (AI) 

 AA-1	Continue to provide guidance, support and resources for districts in the development and application of high quality online/virtual coursework as well as implementation of learning management systems
 AI-1	Educate and support districts in the implementation and facilitation of digital learning tools and portable technologies that foster anywhere, anytime access for staff and students

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA -1	Continue to support Canvas and Google Classroom	Tech Dept Learning Support Services Instructional Coaches	July 1, 2021 - June 30, 2022	General Fund	\$62,400	Increase in the number of online courses developed and increased options for students to demonstrate learning
AA-1	Continue 1:1 support for 3rd - 12th grade Chromebooks	Tech Dept School Technology Coordinator	July 1, 2021 - June 30, 2022	n/a	n/a	Continued support and access to digital instructional tools and resources
AI-1	Continue to advocate for home Internet access capable of supporting online digital instruction that includes blended learning, video conferencing, online video streaming, etc. for all students	Director of Technology Assistant Superintendent Learning Support Services Assistant Superintendent Operations	July 1, 2021 - June 30, 2022	n/a	n/a	Increase opportunities and access to digital instructional tools and resources