



**BULLITT COUNTY PUBLIC SCHOOLS**  
DEPARTMENT OF TECHNOLOGY

**KEVIN FUGATE, DIRECTOR & CIO**

SARAH SMITH, ADMINISTRATIVE ASSISTANT

SARAH CARNES, FIXED ASSETS COORDINATOR

ANDREW HOBBS, NETWORK ADMINISTRATOR

M E M O

May 8th, 2024

TO: Jesse Bacon, Superintendent *JB*

FR: Kevin Fugate, Director of Technology *KF*

RE: 24-25 BCPS District Technology Plan

The District Technology Plan is shared with the KDE's Office of Educational Technology (OET) each year. This multi-year plan removes some of the old language associated with the previous state plan and addresses new needs and priorities for our district. This includes but is not limited to, maintaining current initiatives and refreshing network switches utilizing the E-rate program. It was developed in partnership with the Digital Learning Coaches, District Leadership, Technology Department Staff, and other district stakeholders. This document is designed to support district and state initiatives for years to come.

I ask the board to approve the technology plan for this upcoming school year with the understanding that is a living document that can be amended to reflect changing initiatives along the way. The plan serves as the roadmap for leveraging technology resources to enhance the educational experience. Our continued priorities include: maintaining the 1:1 student devices, online safety, enhanced personalized learning, and providing a seamless technology experience for both teachers and students.

Thank you!

*KF*  
5.8.24

**OUR MISSION IS TO INSPIRE AND EQUIP OUR STUDENTS TO SUCCEED IN LIFE**

**BULLITT COUNTY PUBLIC SCHOOLS IS AN EQUAL EDUCATION AND EMPLOYMENT INSTITUTION**

# Kentucky Education Technology System DISTRICT TECHNOLOGY PLAN

**DISTRICT NAME** Bullitt County Public Schools

**LOCATION** Shepherdsville, KY

**PLAN YEAR(S)** fall of 2024-spring of 2026



[bullittschools.org](http://bullittschools.org)

## Upcoming Year's Strategies Preview

If this is the first year of a multi-year plan, this section acts more like an executive summary of the plan as a whole. If this is the second or third year of a multi-year plan then aim your discussion to any new strategies or adjustments you are planning for this year.

[See [Technology Planning section of KETS Master Plan](#) for more information]

*How did you and the planning team decide on the strategies and/or adjustments for this plan?*

*Briefly discuss the major activities slated for implementation and how these activities will advance curriculum and instruction integration, student technology literacy, professional development, & technology infrastructure.*

Since we've increased the number of wireless access points, our need for the same number of switches has been reduced. We plan to replace switches districtwide through the use of ERate for the next two school years. We're going to start with our Elementary Schools first. The following year we'll do our Middle and High Schools.

Our student survey at the secondary level indicates that there's a large number of students interested in STLP and ESports. We'll begin to look into ways we can increase STLP participation and ways we can support ESports getting a fresh start.

## Student Voice

Personalized learning allows students to develop deeper learning competencies including critical thinking, using knowledge and information to solve complex problems, collaboration, and communication. Capturing student input about their access to opportunities that build these competencies is key to effective technology planning. Please answer the questions in the space provided below.

*Do you currently have a method to collect student responses about the digital learning environment? If so, which tool (ex: BrightBytes, Speak Up, survey created by you or the district, other)? We use a district-created survey for grades 6-12 and are currently in the process of making one for elementary.*

*If you have a method to collect student voice for this purpose, reference specific data points from the collection that were useful in developing strategies for this new plan or informed strategy adjustments during an ongoing plan.*

In the past, students have said it's important to continue offering a robust wireless network and the vast majority of them agree that we need to continue that. We also have a good number of students who are BYOD and we maintain a managed guest system. Out of 1,331 students who completed the survey, so far only 9 have said that they don't have home internet access. In the last two years, we've prioritized having a spot outside of every school where wireless access is possible.



## Collaborative Leadership

*Future Ready Gear*

**KETS GUIDING PRINCIPLE** – Collaborative leadership creates a shared vision of digital teacher and learning, an environment of collaboration (where partners make stuff together), encourages embracing innovation and empowerment, and a culture of evidence-based systems and processes.

*Areas of Emphasis: Acceleration Area (AA) /Growth Opportunity Areas (GO)*



**AA-1**

Continue to use structures providing opportunities for feedback from shareholders and evidence of how KETS systems and processes are working or not working (360 feedback, CIO Summit)



**AA-2**

Continue the fostering of strategic partnerships and collaborations among educational institutions, technology companies, policymakers, and community organizations. Develop networks that facilitate knowledge exchange, collaborative research, and resource-sharing to promote innovation and address common challenges in education technology.




**AA-3**


Continue the recognition and support for the crucial role of teachers as leaders in educational technology integration. Provide professional learning opportunities and resources that enable teachers to develop expertise in leveraging technology to enhance instruction and student engagement.





**GO-1**


Improve collaboration among educators, technologists, administrators, and researchers to foster a holistic approach to education technology development, implementation, and evaluation. Encourage open channels of communication and provide platforms for sharing best practices, ideas, and resources across different disciplines and institutions.


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**AA-1** Continue to provide nation’s first, fastest, highest quality, and most reliable and secure internet access to 100% of Kentucky’s public schools
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**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
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**AA-3** Continue to provide digital equity and foster a culture of digital connectedness for students and staff by ensuring access to a 1:1 device assignment, prioritizing mobile devices over traditional computer labs, and providing consistent Wi-Fi coverage throughout schools. This approach emphasizes always-on, everywhere seamless digital opportunity and access, and includes an emphasis on empowering schools/districts to have a full understanding of digital access beyond the campus
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**AA-4** Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services
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**AA-5** Continue to implement efficient and effective interoperability strategies with statewide, districts, and schools EdTech systems and platforms (including integrations and seamless data exchange). Interoperability strategies aim to enhance user experiences and drive administrative efficiencies with education technologies.
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**GO-1** Improve responsive EdTech support systems by securing leadership positions designed to make decisions to improve teaching and learning through technology integration. This role outlines the district’s vision for education technology, implements digital learning strategies, and ensures that technology resources align with students’ learning needs. Responsibilities and expectations are primarily focused on understanding the educational needs and challenges of the district with a “seat at the table.” Responsibilities would likely include influencing district-level budget conversations, leading planning efforts, research, procuring state and federal program funding, and establishing overall direction and vision of using technology for school efficiencies and instruction/learning.
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**GO-2** Improve formal cycles for review, refresh, and replacement - ensure upgrades, additions, and when called for, sunseting/eliminations in a timely, environmentally responsible and proactive manner of devices, infrastructure, and digital tools and resources. Where possible, teams make concerted efforts to automate systems to drive effectiveness and efficiency. (This is also connected to budget gear)

KETS AA or GO	Strategy/Action Items	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
 <b>AA-1</b>	Maintain high-speed fiber access to all of our locations	CIO, Network Admins, Fiber company	Continuation	General Fund	26,4000	<ul style="list-style-type: none"> <li>• Reduced downtime</li> <li>• Quick repairs of reported network outages</li> <li>• Adequate bandwidth for internet usage</li> <li>• Using ENA portal for analytics</li> </ul>
 <b>AA-1</b>	Maintain 10 GB to Nichols Elementary and Spring Meadows Children's Home	CIO, Network Admins, Spectrum Business	Continuation	General Fund, Erate	9000	<ul style="list-style-type: none"> <li>• Reduced downtime</li> <li>• Adequate bandwidth for internet usage</li> </ul>
 <b>AA-3</b>	Maintain Wireless Access to all district facilities	CIO, Tech Team	Continuation	General Fund, Erate	As Needed	<ul style="list-style-type: none"> <li>• Reduced work order for wireless issues</li> <li>• Survey results (Student Voice)</li> </ul>
 <b>GO-2</b>	Continue to partner with schools to set refresh cycles of classroom equipment (this will include audits of each classroom to ensure they have updated technology)	Tech Team, Schools	Fall of 2024	General, KETS	As Needed	
 <b>GO-2</b>	Replace All Switches in Elementary Schools	CIO, Network Admins, Tech Team	Fall of 2024	General Fund, Erate	72,000	<ul style="list-style-type: none"> <li>• Network performance at each location</li> </ul>

KETS AA or GO	Strategy/Action Items	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
 <b>AA-1</b>	Monitor and locate vulnerabilities that need to be addressed, and maintain software licensing for analysis.	CIO, Network Engineer, Amplified IT	Continuation	General	\$10k	<ul style="list-style-type: none"> <li>• Reports that show data vulnerabilities and compare them to baseline reports.</li> </ul>
 <b>AA-2</b>	Password & Data safety training through Safe Schools (With potential to utilize KnowBe4 software as well)	CIO, Director of Safe Schools	Continuation	N/A	N/A	<ul style="list-style-type: none"> <li>• Completion of training through the Safe Schools site.</li> </ul>
 <b>AA-3</b>	Maintain and improve vendor-level agreements for student data security. Require more documentation from all software requests to ensure data privacy is addressed	CIO, Tech Team	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• Contact with vendors</li> <li>• Continued support from vendors</li> </ul>
 <b>AA-4</b>	Continue to collect information on who has access to sensitive data, we will be in a better position to train those users on proper procedures for data security practices.	DTC/CIO and DLC, Director of Special Education	Continuation	General Fund	N/A	<ul style="list-style-type: none"> <li>• Audits of systems, showing user access rights.</li> <li>• Reviewing access rights</li> </ul>
 <b>AA-5</b>	Continue to streamline the process for automation and	CIO, Tech Team	Continuation	N/A	N/A	<ul style="list-style-type: none"> <li>• Keep open line of communication with HR department to ensure</li> </ul>



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<b>GO-1</b>	visually and user-friendly means	Admin, Schools		ns		
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GO-4

See an increased percentage of districts examining which education technology investments are or are not being maximized (through adoption, frequency of use, and impact)

KETS AA or GO	Strategy/Action Items	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
<p>AA-1</p>	Maintain standards for technology offerings and be cost-effective despite any budget shortfalls.	Tech Team, Finance Director, Superintendent	Continuation,	General, KETS, Chrome	N/A	<ul style="list-style-type: none"> <li>Tech activity reporting, observation</li> </ul>
<p>AA-2</p>	Maintain the Access 24 program at our schools to continue supporting student devices and reduce the workload on STCs.	CIO, Finance Director, Superintendent	Continuation	General Budget	\$14K	<ul style="list-style-type: none"> <li>Workflows at the school level for student devices</li> </ul>
<p>AA-3</p>	Use Chrome Account (technology fees go here) to purchase parts, and extra student devices as needed	CIO, Inventory Specialist, School Access 24 personnel	Continuation	Chrome Account	Varies by year	<ul style="list-style-type: none"> <li>Every student has a working device without damage</li> </ul>

KETS AA or GO	Strategy/Action Items	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
 <b>AA-1</b>	Increased CTE Dual Credit Offerings through JCTC, Look at potential apprenticeships (Including but not limited to the Diesel Mechanics and Aviation Maintenance Programs)	Director of College & Career Readiness, CIO	Continuation	Perkins, KETS	\$30K	<ul style="list-style-type: none"> <li>Increased student enrollment and pathway completion numbers</li> <li>Certifications earned</li> </ul>
 <b>AA-2</b>	Business and Industry Partnerships	College and Career Teachers, CTE Teachers, Chamber Of Commerce	Continuation	NA	NA	<ul style="list-style-type: none"> <li>Continued partnerships and successful preparation for career or college</li> <li>Certifications earned</li> </ul>
 <b>GO-1</b>	Develop needs assessment for the Community Workforce, including tech skills	Director of College & Career Readiness, Chamber of Commerce	TBD	Various sources	NA	<ul style="list-style-type: none"> <li>Identify jobs where employment opportunities exist and determine the skills needed by students to fill those positions.</li> </ul>
 <b>GO-2</b>	Increase usage of emerging technologies for career and technical work aligned with future work standards. (Paxton Patterson Program, ClassLinks, AI tools, etc.)	CTE Teachers, Middle school leadership, Director of College & Career Readiness	Continuation	Perkins	\$30k+	<ul style="list-style-type: none"> <li>Real-world project opportunities, which could increase student interest.</li> </ul>



## 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 (KAS). A robust digital environment provides students with the opportunity to assess their own learning/progress towards mastery of content/skills or utilize instructional technology to provide timely feedback that moves learning forward. Digital curriculum and instruction can also provide students the opportunity to create digital products showcasing a deep understanding of core competencies of every subject, demonstrating mastery of Kentucky Academic Standards for Technology, and utilizing digital collaboration tools that provide a realistic connection to postsecondary and career readiness.

Areas of Emphasis: Acceleration Area (AA) /Growth Opportunity Areas (GO)



**AA-1** Continue to provide access to high-quality learning experiences which further aligns to the Kentucky Digital Learning Guidelines



**AA-2** Continue to promote, for ALL students, the use of Kentucky-approved/adopted Kentucky Academic Standards (KAS) for Technology, KAS for Computer Science, and KAS for Library Media Learning (*all based on national and international learner standards*)



**AA-3** Continue providing opportunities for students to demonstrate learning connected to and through KAS for Technology, KAS for Computer Science, and KAS for Library Media Learning (*empowering students through technology with STLP, CS/IT Academy, etc.*)



**AA-4** Continue to provide efficient and effective access to online assessment tools that allow teachers and administrators to assess student learning, provide timely feedback to students, and make curriculum decisions (*online formative assessment tools, interim based assessments, and summative assessments*)









**AA-5** Continue to provide districts/classrooms access to high-quality and effective digital instructional materials through an equitable and robust digital experience




**AA-6** Continue to support teacher efforts in taking ownership of digital citizenship skills and educating their students in the same skills to foster a responsible, safe, secure, and empowered digital learning environment.

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 <p><b>AA-3</b></p>	<p>School Links- Post Secondary Education &amp; Career Guidance for Students (previously used Naviance)</p>	<p>Lee Barger</p>	<p>Use Begins August 2024</p>	<p>Jim Beam Suntory and Title 4</p>	<p>\$60K</p>	<ul style="list-style-type: none"> <li>• Student usage</li> <li>• Pathways followed</li> </ul>
 <p><b>AA-1</b></p>	<p>Begin using the Paxton Patterson program which utilizes PBL and hands-on activities to explore career pathways at the middle school level. This program engages students through STEM and Career and Technical Education experiences.</p>	<p>Student Learning Department</p>	<p>Use begins fall of 2024</p>	<p>General</p>	<p>Initially \$860K for startup, furniture, and technology needed to begin</p>	<ul style="list-style-type: none"> <li>• Studnet usage</li> <li>• Pathways followed</li> </ul>
 <p><b>AA-2</b></p>	<p>Use state guidelines to add responsible use of emerging technologies (Artificial Intelligence) to AUP</p>	<p>CIO, Asst. Super</p>	<p>Developing now with approval to start this summer, implementation this fall 2024</p>	<p>NA</p>	<p>NA</p>	<ul style="list-style-type: none"> <li>• Responsible use of emerging technology with fewer behavior incidents involving AI</li> </ul>

	professional learning.					
 <b>AA-2</b>	District Participation in Digital Learning Professional Development Opportunities like our district Bullitt Virtual Learning Academy, Deeper Learning Summit, KYGoDigital, Project Based Learning Cohort, Thrive Academy (New Teacher Induction), and other opportunities through OVEC, etc.	CIO, SLD, School and District Admin, Teachers	Continuation	General	TBD	<ul style="list-style-type: none"> <li>• Classroom Observations</li> <li>• Learning/Lesson Plans</li> </ul>
 <b>AA-2</b>	Provide the district with input and guidance to determine the learning needs of staff that would result in more professional learning opportunities	CIO, DLCs, SLD, Instructional Coaches	Continuation	General and School Funding	TBD	<ul style="list-style-type: none"> <li>• Monitoring of Professional Learning opportunities through DLC or District Calendars, PL Tracker</li> <li>• Observations, Eleot data on integration</li> </ul>
 <b>GO-1</b>	Develop a needs assessment related to PL opportunities that will align with KY Education Technology Standards.	CIO, DLCs, SLD	24-25 School Year	General	N/A	<ul style="list-style-type: none"> <li>• PL data (PL Track)</li> <li>• District Calendars</li> <li>• Observe Integration in the classroom, Eleot</li> </ul>

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	classrooms with the further implementation of interactive TVs/PCs/Mobile Carts					<ul style="list-style-type: none"> <li>Stakeholder input</li> </ul>
 <b>GO-2</b>	<p>Explore ways to add professional learning to increase the usage of new classroom technologies.</p> <p>(ex. Use partnerships with vendors to provide professional development to teachers who are receiving new equipment.)</p>	CIO, Asst. Super, DLCs, Vendor partners, teachers	July 2024	NA	Hopefully free	<ul style="list-style-type: none"> <li>Stakeholder input</li> <li>Observation of increased use of new tech in the classroom</li> </ul>