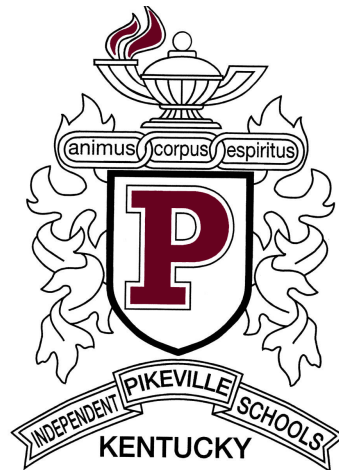


# DISTRICT TECHNOLOGY PLAN

**DISTRICT NAME** Pikeville Independent Schools

**LOCATION** Pikeville, KY

**PLAN YEAR(S)** 2022-2023



[pikeville.kyschools.us](http://pikeville.kyschools.us)

# Table of Contents

[Table of Contents](#)

[Planning Team](#)

[Previous Plan Evaluation](#)

[New Plan Preview](#)

[Student Voice](#)

[KETS Master Plan Areas of Emphasis](#)

[Robust Infrastructure & Ecosystem](#)

[Data Security, Safety & Privacy](#)

[Budget & Resources](#)

[Partnerships](#)

[Digital Curriculum, Instruction & Assessment](#)

[Personalized Professional Learning](#)

[Use of Space & Time](#)

## Planning Team

<b>District Staff</b> [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
David Trimble, Superintendent	Shawne Wells, Instructional Supervisor / DAC
Neil Arnett, District Technology Coordinator	Kim Clevinger, Instructional Supervisor / Federal Programs
Cory Smith, District Data & Communications Specialist	Ashla Vanhooose, Director of Special Education
	Brandon Blackburn, Principal - Pikeville High School
	Robert Jones, Principal - Pikeville Elementary
<b>Building Staff</b> [Recommended to include principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Chazzlynn Fleming - Pikeville Elementary, STEM-Computer Science	Ashley Adams - Pikeville High School, Mathematics
Christina Howard - Pikeville Elementary, Library Media Specialist	Shana Webb - Pikeville High School, Junior High
Kim Fields - Pikeville Elementary, Intermediate Grades	Jesse Lucas - Pikeville High School, CTE/Engineering/Science
Sarah Blackburn - Pikeville Elementary, Intermediate Grades	Lukas Burchett - Pikeville High School, Library Media Specialist
Natasha Baird - Pikeville Elementary, Intermediate Grades	Mary Ann Prater - Pikeville High School, CTE/Media
Joy Loader - Pikeville Elementary, Primary Grades	Rebecca King - Pikeville High School, Language Arts
Markayla Stevens - Pikeville Elementary, Primary Grades	Laura Cooley - Pikeville High School, Humanities
<b>Additional District Contributors</b> [Recommended to include board members, SBDM members, program directors, etc.]	
Dawn Stewart - Guidance Counselor / SBDM Member	Glenda Adkins - Pikeville Elementary, Assistant Principal
<b>Students</b> [Recommended to include middle and/or high school students ]	
Lincoln Parsons	Ian Blackburn
<b>Other</b> [parents/community members, business and nonprofit leaders, etc. ]	
Traci Tackett - Director of Digital Literacy, BitSource	Tough As Nails/Digital Promise Core Research-Practitioner Team

## Previous Year's Strategies Evaluation

In this section include a discussion of the previous year's strategies using the prompts below. Attempt to limit your narrative to the space provided.

*What strategies from last year went well?*

- Expanded Project Lead the Way, Computer Science and Engineering Pathway offerings, Purchase devices and other resources to implement and support Project Lead the Way Gateway Program: *Automation & Robotics/Computer Science for Innovators and Makers*
- Completed Wifi standard 6 upgrade in every classroom, increased capacity and speeds. Awarded \$58,258.41 from FCC E-Rate Funds.
- Upgraded local area data network switches to support wired and wifi connections. Awarded \$69,750.40 from FCC E-Rate Funds.
- Purchased and Implemented district solution for parent/student communication.
- Expansion of STEM Education initiative to integrate Computational Thinking in K-8, partnership with National Science Foundation. Awarded \$100,000 two year Steele-Reese partnership for classroom materials & equipment. \$50,000 NSF award for teacher STEM training & planning.
- 1:1 Classroom-based initiative complete grades 2nd - 12th. 75% completion grades Kindergarten - First. (\$95,989 average annual sustainability replacement cost)
- Successfully re-negotiated wide-area network dark fiber optic lease operated by district technology staff interconnecting all district locations. Five year savings of \$108,000 over the life of the agreement. Additionally awarded \$81,600 over five years from FCC E-Rate Funds to cover 80% of the lease agreement.
- District Technician position successfully expanded to full-time to better support immediate classroom and network needs.
- Realized savings of \$15,335.71 on installation of Wifi 6 upgrade performed by technology department staff.
- Completed installation of new telephone solution, advanced e911 safety capabilities, and remote connection options. Realized savings of \$72,683.40 over 5 years for negotiated service cost.
- Awarded \$119,625.00 in FCC Emergency Connectivity Funds to cover 100% of purchase of additional devices for students to advance 1:1 making them available for home use as necessary.
- Upgraded copying and central printing machines at Pikeville High School with negotiated savings of \$9,744.60 over five year term.

Negotiated Savings & Outside Awards: \$684,997.52 over five years.

*Goals that were not met or didn't have the expected outcomes?*

Due to the limitations and/or restrictions as result of the pandemic, the following goals were not met and are ongoing:

- District Server Storage and Virtualization upgrade/expansion project was not finalized but is still being pursued.
- Classroom Instructional Technology equipment such as LCD Touch displays were paused during the pandemic response and are being considered this year for continued upgrade of projection/classroom viewing devices.

*Which strategies are dropping off the plan because you've met them or they aren't relevant now ?*

- Wireless internet upgrades completed. Guest and BYOD secured portals have been implemented and expanded district-wide.
- Purchased devices and other resources to implement and support Project Lead the Way Gateway Program: *Automation & Robotics/Computer Science for Innovators and Makers*

*Needs that emerged after evaluation of the previous year's strategies?*

As the demands of devices and digital tools continue to increase, it is becoming even more apparent that additional support is needed to best serve the students and educators of Pikeville Independent Schools. Two areas of need have emerged, even more so considering the challenges revealed during the COVID-19 pandemic:

- Integration Support - As the need and reliance on digital learning and the use of digital tools continue to grow, educators and students are in need of classroom level guidance to effectively deliver and participate in digital instruction and communication.

With the increased threat to data security and corruption, a locally hosted back-up solution is needed to maintain data integrity and restore data in the event of data loss or corruption. Pikeville Independent Schools will investigate a more robust virtual environment and network storage solution to host district owned application and data retention.

Increase emphasis on front loading technical skills so students can readily utilize core academic integrated technology.  
Continued emphasis on professional learning options; investigate PL outside sources & available grant funding for professional learning.

## 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?*

District Technology personnel reviewed past initiatives, trends, and other resources to construct goals relevant to the district. District Technology personnel conducted various surveys with students and faculty to receive feedback and analyze results which were discussed by the planning team in addition to administrative discussions. Evaluating multiple metrics of growth and integration district staff discussed areas of greatest needs to maintain success.

### **Highlights from Faculty Feedback that influence the goals of this plan: How has your most used Digital Learning Tool revolutionized your classroom in the last 1-3 Years?**

- Allowing students to **interact** with assignments and **explore** how things work.
- On a daily basis, I video myself teaching or explaining the assignment while teaching it to a live class. I then post it on my Google Classroom **for those students who are absent** so they can know what was going on when they were out.
- With the new features through the district purchase, students are offered **rigorous** and **engaging** instruction
- It allows me to give **extra practice** for my students after a lesson has been taught. It also allows me to **differentiate** for students who may need a higher or lower level of practice.
- Almost daily for my Math 2 class this year, I have used Edpuzzle to **deliver [simultaneous] instruction** to all 4 homerooms during the math 2 time-block each.
- Creates opportunities to **illustrate** scientific concepts that can be hard to **visualize** with traditional labs
- Has allowed students to move at their **own pace** and me able to **monitor** their progress effectively
- Makes it easier for students to work, **discuss** and **share** their ideas with the entire class

## 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]

*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.*

- Complete 1:1 implementation with final 25% in Kindergarten and First Grade, one PHS Classroom.
- Maintain 1:1 devices and repair costs estimated: \$12,843.00
- Sustain 1:1 replacement five-year cycle, 2022 and 2023 projected cost \$139,825.00
- Expand implementation of BrightBytes ETI for the evaluation of the EdTech Impact of digital learning tools. Digital learning teams will use ETI data to determine the digital resources that best meet the needs and goals of each school.
- Successful digital learning tools will be expanded through peer-coaching and flexible professional learning options
- Accelerate classroom projection / LCD viewing upgrades estimated \$81,850.00
- Implementation of Digital Curriculum Vitae; students will capture artifacts of digital and technology enhanced job skills to be shared with, but not limited to: prospective internships, employment, scholarship applications, and admissions consideration.
- Technology Staff and Digital Leaders will complete a dashboard of available tools for district educators and students with example uses. Combined with training on the Kentucky Digital Learning Coaches Network's Digital Dashboard.
- Technology Curriculum Team will continue to work K-12 to identify tangible outcomes at each grade-level and age-appropriate expectations for the areas of the statutorily required KAS for Technology; Empowered Learner, Digital Citizen, Knowledge Constructor, Innovative Designer, Computational Thinker, Creative Communicator, Global Collaborator.
- Innovative professional learning strategies and offerings will be implemented by the 2022-2023 Innovations Fellowship of educators
- Technology Staff will work with Pikeville High School to create a student-led level-one technical helpdesk call center; providing immediate communication for educators, answer frequently asked questions, and provide real-time needs to technology staff for more efficient triage of technical assistance.
- Continue five-year staff computer replacement cycles, 2022-2023 estimated \$33,388.08
- Teachers will have the opportunity to participate in the 2022 STEM EKY Summer Institute as a part of the Digital Promise NSF initiative.

## Student Voice

Personalized student 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)?*

SpeakUp Digital Learning Survey 2nd - 12th grades.

*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.*

*Upon reviewing the SpeakUp Survey, the following data points were noted as areas of emphasis and used to develop strategies and guide initiatives:*

- Responding to the SpeakUp Digital Learning Survey 2nd - 12th grade students:
  - What do you think are the benefits of using technology as part of your learning experiences?  
As a result of using technology, I am (Check the benefits that are true for you)
    - 9th-12th grade students
      - 68% Learning at my own pace
      - 59% Applying what I have learned to practical problems
      - 58% Developing critical thinking and problem-solving skills
    - 6th-8th grade students
      - 73% Getting better grades and test scores
      - 71% Collaborating with other students more
      - 67% Learning at my own pace
    - 3rd-5th students (By using technology to help with my learning...)
      - 70% I am more creative
      - 68% I get to learn at my own speed
  - Which of these life skills do you think are most important for you to acquire to be successful in the future? (Check all that apply)
    - 9th-12th grade students
      - 88% Ability to learn new skills on your own
      - 79% Ability to work with different kinds of people
      - 75% Critical thinking and problem-solving skills
      - 75% Teamwork and collaboration skills
    - 6th-8th grade students
      - 85% Ability to work with different kinds of people
      - 83% Ability to learn new skills on your own
      - 71% Critical thinking and problem-solving skills
      - 71% Teamwork and collaboration skills

## 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) 

 <b>AA-1</b>	Continue to provide nation’s first, fastest, highest quality, and most reliable internet access to 100% of Kentucky’s public schools
 <b>AA-2</b>	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
 <b>AA-3</b>	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> )
 <b>AA-4</b>	Continue to encourage the use of instructional programs and administrative processes requiring cloud-based services
 <b>AI-1</b>	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-2 AI-1	Schools will be provided with technical, instructional, and administrative support to ensure that all students have equitable access to technology.	Instructional Supervisor(s) DTC	2022 - 2023	Local		HelpDesk Logs Technology Project Management DRS
AA-3 AI-1	Replace interactive display classroom components on an accelerated schedule to maintain 21 <sup>st</sup> century learning environments.	Instructional Supervisor(s) DTC	2022 - 2023	Local KETS Title I Title VI ESSER	\$81,850.00	HelpDesk Logs TAR Data
AA-3 AI-1	Purchase & aged-replacement of mobile devices to support technology enhanced curriculum and assessment by completing & sustaining 1:1 classroom-based initiative K-12.	DTC	2022 - 2023	KETS Local Technology Title VI ESSR/ARP ECF	\$213,940.00	TAR Data Technology Committee Surveys
AA-3 AI-1	Upgrade lab devices to support Engineering and Computer Science pathways and purchase supporting resources and materials as needed.	DTC	2022 - 2023	Perkins Local Technology Stanley Pigman Grant	\$35,000.00	Career Pathway Completion Industry Certification
AA-3 AI-1	Maintain devices to support/repair Project Lead The Way Gateway units in Grades 6-8 and purchase	DTC	2022 - 2023	KETS Local Technology Stanley Pigman	\$1,500	Career Pathway Completion Industry Certification

	supporting resources and materials as needed.			Grant Steele-Reese		
AA-1 AA-2 AA-3	Continue contracted support of Basic Maintenance of critical network infrastructure.	DTC	2022 - 2023	KETS Local ERate	\$2,500	Networks Logs ERate Documentation
AA-1 AA-2 AA-3	Continue contracted support of a managed wired and wireless internal broadband user experience.	DTC	2022 - 2023	KETS Local ERate	\$2,500	Networks Logs ERate Documentation
AA-1 AA-3	Continue to monitor and implement best practices to maximize network capacity to support dense wireless network, security, and data throughput.	DTC	2022 - 2023	None		KETS Monitoring Information Internal Network Monitor Tools
AA-2 AI-1	Evaluate the effectiveness and sustainability of a 1:1 initiative through strategic instructional partnerships and planning.	DTC	2022 - 2023	Local Technology		Internal Survey Results SpeakUp Survey Results BrightBytes EdTech Impact
AA-2 AA-4	Teacher workstations, intelligent classroom components, and instructional software will be evaluated/replaced/added as needed.	DTC		KETS Local Technology	\$33,388.08	HelpDesk Logs
AA-2 AA-4	Continue to support teachers in the use of Google Suite for Education (GSuite) solution specifically Google Drive and Google Docs to encourage	DTC		None	\$3,072	Internal Survey Results Professional Learning / Flex PD Feedback



	collaboration and offer adequate file storage.					
AA-1 AA-3	Fiber will be leased to enable the district and schools to effectively communicate with each other and to efficiently access the Internet.	DTC		Local ERate	\$20,400 [\$16,320 from FCC E-Rate Support]	TAR Report MUNIS Report KETS Monitoring Internal Network Monitoring
AA-3	Maintain phone services to provide access to outside telephone lines for the purpose of communicating with parents and other stakeholders. Schools will have access to both local and long distance services for communication purposes. Advanced e911 capabilities in compliance with federal law. Allow remote communication flexibility when necessary.	DTC(s)		Local	\$17,856.24	TAR Report Munis Reports
	The district will pursue a robust server solution to support the current virtual environment and allow expanded virtual hosts and future virtualized server applications.	DTC		Local	\$51,034.64	Internal Monitoring HelpDesk Logs










## 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)
AI-1 AA-1 AA-5	Required staff training of Data security and Privacy	DTC	by August 11, 2022	None		<i>PD Online Course Reports</i>
AI-1 AA-1 AA-5	Annual Board of Education Update on Data Security and Privacy	DTC	by August 30, 2022	None		<i>Board Minutes</i>
AA-3	Leverage Content Filter and other tools to monitor and maintain dense wireless network (private & guest) to meet expectations and preserve network integrity.	DTC	2022 - 2023	None		<i>Lightspeed Reports Meraki</i>
AA-3	Leverage capabilities of content filter and wireless network features to offer a more secure experience and allow unique access based on roles and policy. ensure secure and reliable access.	DTC	2022 - 2023	None		Lightspeed and Aruba reports and network monitoring.
AI-1	Investigate addition of Checkmate School Visitor tracking system and integration with Student Information System.	DTC School Principal(s) Safe Schools Coordinator	2022 - 2023		\$1,503 (Yr 1 Setup) \$2,371.56 (Equipment) \$1,203 (Annual Renewal)	Safe School Audit Results
AI-1	Improve and expand building and grounds security measures such as, but not limited to, IP security cameras, administrative	DTC Safe Schools Coordinator Principals Federal Programs	2021 - 2023	Title IV KETS Local Technology SBDM		Safe School Audit Results



	viewing stations, and access control	Director				
AA-1 AA-2	Investigate and pursue solutions to perform routine and secured back-ups of administrative devices and pertinent data.	DTC	2021 - 2023	KETS Local Technology		












## 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)
AI-1	Successful digital learning tools will be expanded through peer-coaching and flexible professional learning options. Introduce digital coaching for increased one-on-one job embedded professional learning.	DTC Principal(s) Instructional Supervisor(s)	2022 - 2023			Internal Survey Results SpeakUp Survey Results
AI-4	Expand implementation of BrightBytes ETI for the evaluation of the EdTech Impact of digital learning tools. Digital learning teams will use ETI data to determine the digital resources that best meet the needs and goals of each school.	DTC Principal(s) Instructional Supervisor(s)	2022 - 2023			BrightBytes ETI Reports Digital Learning Team Evaluation Notes
AI-1	Technology Staff will work with Pikeville High School to create a student-led level-one technical helpdesk call center; providing immediate communication for educators, answer frequently asked questions, and provide real-time needs to technology staff for more efficient triage of technical assistance.	DTC Principal CTE Department Data & Communications Specialist	2022-2023			Helpdesk logs FAQ Documentation Call Logs
AA-3	Continue to purchase Microsoft Campus Agreement.	DTC	2022 - 2023	Local Technology	\$9,625.00	Microsoft Azure License Allocations
AA-1	Continue to purchase hosted service agreement for the	DTC	2022 - 2023	Local	\$7,389.01	

# DISTRICT TECHNOLOGY PLAN

*Pikeville Independent Schools*

	Student Information System (Infinite Campus).					
AA-1 AA-2	Continue to purchase District Website and district-branded application. Beginning Migration April 2022 to Finals CMS system for modern site upgrade.	DTC Principal(s)	2022 - 2023	Local	July 2022 - \$4,666.00 July 2023 - \$5,266.00 July 2024 - \$5,566.00	
AA-1	Continue to purchase and expand the implementation of home to school communications system.	DTC Instructional Supervisor(s) Principal(s)	2022 - 2023	Local	\$4,200.00	Internal Survey Results
AI-2	Evaluate the purchase of annual instructional digital content & resources. (Renaissance Learning, MAP Assessment, SplashMath, Dreambox, Lexia, Turnitin.com, etc.)	DTC Instructional Supervisor(s) Principal(s)	2022 - 2023	Title I Local Title VI	\$59,688.40	BrightBytes EdTech Impact Individual resource utilization reports, RTI data, Benchmark Reports
AI-4	Technology Staff and Digital Leaders will complete a dashboard of available tools for district educators and students with example uses. Combined with training on the Kentucky Digital Learning Coaches Network's Digital Dashboard.	DTC Instructional Supervisors School Administration	2022-2023			Dashboards Professional Learning Logs
AI-1	Continue to purchase Helpdesk and asset management software.	DTC	2022 - 2023	Local Technology	\$660.00	Helpdesk Reports
AI-3	Continue to purchase & support of the enterprise Learning Management Solution (LMS). Evaluate the	DTC	2022 - 2023	Local Technology	\$8,550	Schoology Reports

## DISTRICT TECHNOLOGY PLAN

*Pikeville Independent Schools*



	standardization of 7th-12th LMS usage.					
AI-2 AI-3	District will continue to purchase Papercut and expand its use by adding Papercut device licenses to new PES Copiers.	DTC	2022 - 2023	Local Technology	\$4,872 new device license	Papercut Reports
AI-2	Schools will continue to maintain or renegotiate Copier Leases.	School Administration	2022 - 2023	SBDM	\$10,003.08 PHS \$16,000 PES	TAR Report
AI-3 AA-2	Chromebook Maintenance and Total Cost of Ownership	DTC School Administration		Local Technology SBDM	\$12,843.00	Helpdesk Data








## 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) 

 <b>AA-1</b>	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> )
 <b>AA-2</b>	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> )
 <b>AA-3</b>	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> )
 <b>AI-1</b>	Partner with postsecondary pre-service teacher and principal programs to provide support in candidate preparation
 <b>AI-2</b>	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)
AI-1 AI-2	Continue partnership with Big Sandy Community & Technical College / Entrepreneurship Education Consortium	Librarians STLP	2022 - 2023	EntreEd Grant		Internal Survey Results Professional Learning Feedback
AA-1	Continue Partnership with "Future of Work" National Science Foundation, Digital Promise, South Fayette SD, BitSource, and SOAR.	Librarians STLP DTC	2022 - 2023	National Science Foundation National Science Foundation Grant  Steele Reese Foundation	Final Year: \$44,067.44 NSF  Pending Approval 2022-2026 NSF Grant 2  Pending Approval Year 3 \$50,000	Internal Survey Results Professional Learning Feedback
AA-2	Through partnership with Stanley Pigman, Pikeville High School & Pikeville Elementary will participate in the Project Lead the Way program in support of Engineering, and PLTW Gateway Program Pathways.	Instructional Supervisors(s) DTC Engineering/Physical Science Teacher Building Principal	2022 - 2023	Project Lead the Way Local Technology SBDM Perkins	Budget support itemize for Personalized Professional Learning.	Career Pathway End of Path Assessment Results Industry Certification Results Enrollment to Program
AA-2	Engineering & Computer Science Pathway support is being built through the expansion of the Engineers Advisory Committee & exploration of internship and apprenticeship opportunities	Instructional Supervisors(s) DTC Engineering/Physical Science Teacher Building Principal	2022-2023			Engineers Advisory Committee Career Pathway End of Path Assessment Results Industry Certification Results Enrollment to Program

# DISTRICT TECHNOLOGY PLAN

*Pikeville Independent Schools*


	for high school CTE students.					
AA-1	Administrative Team and Teachers will participate in conferences and/or workshops offered through KySTE to improve digital workflow, digital relationships and digital collaboration. Teachers will investigate effective use of technology to personalize and differentiate lessons.	Instructional Supervisor(s) DTC Classroom Teachers Library Media Specialists	2022 - 2023	Local	\$4,000	Internal Survey Results Professional Learning Feedback
AA-2	The district will investigate the availability of technical training for district technology staff offered by the Dataseam Initiative for the deployment, support and maintenance of Apple workstations and expansion of US Department of Labor certified IT Apprenticeships	Instructional Supervisor(s) DTC	2022 - 2023	KETS Local		
AI-2	Students will participate in Student Technology Leadership Program (STLP) to showcase learned technology skills.	DTC Instructional Supervisor(s) STLP Coordinator(s)	2022 - 2023	None		STLP Results Number of participants in program











## 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) 

 <b>AA-1</b>	Continue to provide access to instruction digital content which further aligns to the Kentucky Digital Learning Guidelines
 <b>AA-2</b>	Continue providing opportunities for students to demonstrate learning connected to and through technology ( <i>empowering students through technology with STLP, IT Academy, etc.</i> )
 <b>AA-3</b>	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
 <b>AA-4</b>	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> )
 <b>AA-5</b>	Continue to provide districts/classrooms access to digital instructional materials through an equitable of robust digital experience
 <b>AI-1</b>	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
 <b>AI-2</b>	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
 <b>AI-3</b>	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)
AI-1	Expand implementation of BrightBytes ETI for the evaluation of the EdTech Impact of digital learning tools. Digital learning teams will use ETI data to determine the digital resources that best meet the needs and goals of each school.	DTC Principal(s) Instructional Supervisor(s)	2022 - 2023			BrightBytes ETI Reports Digital Learning Team Evaluation Notes
AA-1 AA-2	Technology Curriculum Team will continue to work K-12 to identify tangible outcomes at each grade-level and age-appropriate expectations for the areas of the statutorily required KAS for Technology; Empowered Learner, Digital Citizen, Knowledge Constructor, Innovative Designer, Computational Thinker, Creative Communicator, Global Collaborator.	DTC Principal(s) Instructional Supervisor(s) Digital Literacy / STEM Teachers	2022-2023			Curriculum Mapping Team Documents
AA-1 AA-5	8th/9th grade students who have enrolled in Digital Literacy will be proficient in technology literacy and digital citizenship by May 2023.	DTC Instructional Supervisor(s) Digital Literacy Instructors	2022 - 2023	Local		Digital Learning Curriculum Vitae
AA-1 AA-5	6th grade students will be proficient in technology literacy and digital citizenship by May 2023.	DTC Instructional Supervisor(s) Digital Literacy	2022 - 2023	Local		Digital Learning Curriculum Vitae



		Instructors				
AA-1 AA-5	By the end of 9th grade students will take Digital Literacy for high school credit to lay adequate foundation to complete Digital Learning Curriculum Vitae by 12th grade.	SBDM Principal Counselor Instructional Supervisor(s)	2022 - 2023	None		Digital Learning Curriculum Vitae
AA-1	The district will continue to assess and implement keyboarding skills across appropriate grade levels with goals aligned to Reading and Writing Standards Composition C.X.4 4th: 9WPM 5th: 18WPM 6th: 27WPM 8th: 60WPM	DTC Principals Instructional Supervisor(s)	2022 - 2023	None		Three times a year benchmark timed typing assessments will be taken.
AA-2	Students will participate in various programming/coding initiatives such as Code.org's Hour of Code, SOAR's Hack-a-Thon, Girls Who Code, and other opportunities to encourage Computer Science in curriculum integration.	DTC Instructional Supervisor(s)	2022 - 2023	None		
AA-3	The district will offer career majors through the Career & Technical Education Program focusing on Business,	DTC Instructional Supervisor(s)	2022 - 2023	None		Career Pathway End of Path Assessment Results Industry Certification Results Enrollment to Program

	Programming, Engineering, and Game & Digital Design..					
AI-1	The district will facilitate vertical and horizontal curriculum review/revision in core subject areas to include common core standards and technology integration as outlined by Kentucky Academic Standards for Technology and Computer Science and CIPA.	Instructional Supervisor(s)	2022 - 2023	None		Technology & Computer Science Standards Committees CSforAll SCRIPT Team
AA-3 AI-2	The district CSforAll S.C.R.I.P.T. Team will continue to evaluate and implement 3 month, 6 month and 9 month goals as we continue to build the K-12 Computer Science Pathway.	Instructional Supervisor(s) DTC SCRIPT Team	2022 - 2023	None		Technology & Computer Science Standards Committees materials CSforAll SCRIPT Team Rubrics & Goals Updates
AA-1 AA-3	Students' technology literacy skills, as outlined in Kentucky Academic Standards and CIPA, will be assessed through Implementation of Digital Curriculum Vitae; students will capture artifacts of digital and technology enhanced job skills to be shared with, but not limited to: prospective internships, employment, scholarship applications, and admissions consideration.	Instructional Supervisor(s) Library Media Specialist(s) Digital Literacy Instructors	2022 - 2023	Local		Digital Curriculum Vitae

# DISTRICT TECHNOLOGY PLAN

*Pikeville Independent Schools*



AI-1	Teachers will analyze technology assessment results and adjust curriculum according to student need.	Instructional Supervisor(s) PHS Principal PES Principal Library Media Specialist(s)	2022 - 2023	None		
AA-1	All students will complete the Digital Citizenship (or equivalent) curriculum by the 9th grade.	Instructional Supervisor(s) PHS Principal PES Principal DTCs Library Media Specialists	2022 - 2023	None		Assessment results
AA-1	CTE Career Major students will complete their first Career Pathway Assessment by the end of Year 2 of their career major schedule and then complete their second Career Pathway Assessment before the end of Year 4 (or Graduating Year)	Instructional Supervisor(s) PHS Principal DTCs CTE Teachers Guidance Counselor(s)	2021-2025	Perkins Local		Assessment Results
AA-1 AA-5	Elementary Computer Applications classes will incorporate curriculum for media literacy and digital citizenship into 3rd-6th grade classes.	Instructional Supervisor(s) PHS Principal PES Principal DTCs Library Media Specialists Digital Literacy Instructor	2022 - 2023	None		



## 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

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	Vertical and horizontal PLC's will investigate various methods of technology enhanced formative and summative assessment.	DTC Instructional Supervisor(s) PHS Principal PES Principal	2022 - 2023	None Needed		
AA-1	Teachers will be provided the opportunity and encouraged to supply lesson resources and/or work samples in support of State Technology Standards and National Science Foundation supported	DTC Instructional Supervisor(s)	2022 - 2023	None Needed		Technology Lesson Bank Capture Tool & Database

	computational thinking pathway implementations.					
AA-1	Limited number of teachers will participate in open seats of the 2022 STEM Summer Institute July 2022 provided by the National Science Foundation supported team. Teachers will follow-up throughout the year 2021-2022 school year to demonstrate implementation of KY Technology Standards for Computational Thinking through Digital Promise Micro-credential review and award process.	DTC Instructional Supervisor(s)	2022 - 2023	National Science Foundation - Digital Promise TAN Sub-award	\$16,800.00	Summer Institute Rosters and Sign-in Micro-credential Work Logs & Awards Technology Lesson Bank Capture Tool & Database
AI-1	Teachers will be introduced to the ISTE Standards for Educators and Students.	DTC Instructional Supervisor(s) PHS Principal PES Principal	2022 - 2023	None		Teacher Lesson Plans
AI-1	Teachers will receive training and support for the Google Apps for Education family of products to encourage effective collaboration, offer increased file storage, and provide various tools to support technology integration.	Instructional Supervisor(s) DTC	2022 - 2023	Local (DTC Salaries)		Google Certification Results
AI-1	Investigate funding sources and scheduling opportunities	Instructional Supervisor(s)	2022 - 2023	None		Professional Learning Survey Results and Feedback

	for department, content, and/or designated leaders to attend external, technology integration focused professional learning opportunities.	DTC				
AI-1	Teachers will participate in Nearpod/Flocabulary Training(s) to enhance presentation of content and increase classroom interactivity.	Instructional Supervisor(s) DTC	2022 - 2023			Professional Learning Survey Results and Feedback
AI-1	Teachers will participate in LANSchool Training to improve classroom management and effectively interact with student devices.	Instructional Supervisor(s) DTC	2022 - 2023			Professional Learning Survey Results and Feedback
AI-1	Teachers will participate in Viewsonic Interactive Display and Software Training to support the rollout of new interactive displays and the replacement of legacy interactive white boards	Instructional Supervisor(s) DTC	2022 - 2023			Professional Learning Survey Results and Feedback



## 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	The district will facilitate PLC's focusing on vertical and horizontal curriculum review & revision in core subject areas to include technology integration as outlined by Kentucky Academic Standards and CIPA	Instructional Supervisor(s) PHS Principal PES Principal	2022 - 2023	None		
AI-1	Teachers will participate in training for the effective integration of technology in teaching through; face-to-face technology workshops, job embedded professional	Instructional Supervisor(s) DTC	2022 - 2023	Local (Salaries)		Professional Learning Survey Results and Feedback

	development, and/or utilizing resources.					
AI-1	Teachers will receive training on the effective use of Learning Management Systems (LMS) to enhance student communication and diverse assessment techniques.	Instructional Supervisor(s) DTC	2022 - 2023	Local (DTC Salaries)		LMS Usage Reports Professional Learning Survey Results and Feedback