

# DISTRICT TECHNOLOGY PLAN

**DISTRICT NAME** Henry County Public Schools

**LOCATION** New Castle, KY

**PLAN YEAR(S)** 2019-2022



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## Planning Team

District Technology Staff	
Nikkol Bauer, Chief Information Officer	Derek Forbes, Computer Technician
Jason Sparrow, IT Specialist	Nick Lyons, IT Help Desk Manager
District Administrators	
Terry Price, Superintendent	Niki Whitaker, Director of Special Education
Chelsey Tingle, Assistant Superintendent	Stephanie Melton, Preschool/Primary Coordinator
Megan Klempner, Finance Officer	Zach Woods, Director of Pupil Personnel
Principals	
Amy Treece, Campbellsburg Elementary	Andy Buchholz, Principal, Henry County Middle School
Angie Denny, Eastern Elementary	
Phillip Guthrie, New Castle Elementary	Shannon Sageser, Henry County High School
Judy Rice, Center for Educational Opportunities	Kevin Webster, Asst. Principal, Henry County High School
School Technology Coordinators	
Robin Payton, Campbellsburg Elementary	Lesley Doane, Henry County Middle School
Brittany Marshall, Eastern Elementary	Andrew Shearer, Henry County High School
Burleigh Dighton, New Castle Elementary	
Others	
Emily Edwards, Curriculum Coach, Henry County Middle School	Katie Johnson, LMS, Eastern and New Castle Elementary
Barney Sutley, College and Career Coach, Henry County High School	Katrina Johnson, LMS, Henry County Middle School
Tammy Nash, Instructional Coach, New Castle Elementary	Rachel Burgin, LMS, Henry County High School
Kristin Wilson, MTSS Coach, Campbellsburg Elementary	

## Previous Plan Evaluation

The 2018-2019 District Technology Plan utilized the CASE™ Framework from BrightBytes, which focuses on the following four areas: Classroom, Access, Skills, and Environment. There were a total of seven goal with related strategies tied to these areas:

- Increase student use of digital tools to implement the 4Cs in the classroom by at least 5% points as reported by teachers on the BrightBytes survey.  
*Most of the strategies under this goal were at least partially completed. Principals were shown how to access their BrightBytes data and survey highlights were provided to each school. Teacher reported implementation of the 4Cs increased by exactly 5%: CES +1.8%, EES +14.2%, NCES +7.2%, HCMS +6.2%, HCHS -0.6%.The district would still like to curate 4C technology-related resources for teachers.*
- Provide Digital Citizenship instruction to all students K-12.  
*The district's current Digital Citizenship instruction plan asks counselors and library media specialists at the elementary level and language arts teachers at the secondary level to provide and document instruction on digital citizenship. Instructional resources are provided on the district's website. There does exist a need to review the plan, as students report infrequent instruction of certain digital citizenship topics.*
- Provide 24/7 access to quality technology resources to support learning and education administrative needs.  
*The district was able to complete most of the strategies under this goal including providing fiber service to the schools and central office, continuing support for the 1:1 program, upgrading the wireless network at NCES, planning for wireless upgrades for CES and EES in subsequent years, securing maintenance for network equipment and file servers, and providing each school with a list of workstations that need replacing. The wiring at NCES still needs upgrading and a cost analysis of Microsoft licenses has not been done.*
- Monitor and address gaps with student home access to technology.  
*Work was done toward all strategies under this goal, but improvements could be made, including advertising free or low-cost home access.*
- Achieve Exemplary status in the Skills area of the BrightBytes survey.  
*The strategies under this goal were not implemented. Overall Skill score has remained relatively static for three years. HCPS rates as Advanced here, so there is room for improvement. This may not be a necessary goal on it's own, as it can be folded into the Personalized Learning domain.*
- Implement and refine district policies and procedures as they relate to education technology and data security.  
*The district was able to complete most of the strategies under this goal including monitoring 1:1 policies and procedures, data security and privacy training, identifying third-party data systems and monitoring student and teacher perception of obstacles to using technology at school. Improvement could be made to identifying data systems, as new systems are adopted frequently. In addition, feedback from stakeholders on 1:1 policies and procedures would be beneficial.*
- Provide teachers with professional learning opportunities on the available technology tools to enhance learning.  
*The strategies under this goal were not implemented. Lack of time has been the primary reason for this. Regardless, there have been professional learning opportunities available this year through school sponsored PD and district/school support to send teachers to KySTE.*

## New Plan Preview

Henry County Public Schools strongly believes that individualized and personalized learning is a critical factor in developing college and career ready students. Digital learning serves as a vehicle towards this end.

Our vision is to provide students with a 21<sup>st</sup> Century, personalized, technology-infused learning experience in which students have multiple opportunities to engage in rich, authentic and collaborative work. We recognize that this type of learning extends beyond the walls of the school and hours of the school day, requires robust network infrastructure and hardware, and demands ongoing professional learning.

In order to determine the areas of emphasis for this technology plan, the following tasks were completed: a review of previous plan accomplishments, a review of BrightBytes data, a needs assessment as indicated by the district improvement plans, and school feedback on technology focus areas. The plan was also designed to be as comprehensive as possible, providing strategies for areas to maintain a continued focus, as well as areas of improvement. The major activities in this plan can be summarized as follows:

- Complete a refresh of large infrastructure needs so that HCPS remains current and has room to grow during the 2020 decade.
- Continue to make investments in 1:1 for students, especially in light of online testing, and a 5 or 6 year refresh of staff devices.
- Continue to seek cost savings through programs like e-Rate and partnerships with organizations such as OVEC.
- Focus on supporting schools with targeted technology professional learning needs.
- Improve learning opportunities for students through various means such as creative uses of school time, use of innovative learning platforms, and strengthening the use of the 4Cs by students at all grade levels.
- Continue to emphasize data security and accuracy with staff and students.
- Starting in the Summer of 2020, plan and implement additional strategies in response to the COVID-19 pandemic, forcing schools to continue learning online.

## 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.

Henry County Public Schools currently uses BrightBytes as a means to collect student responses about the digital learning environment. As of the Spring 2019 survey, the following data points provide valuable information to consider when working toward completing the strategies in this plan.

### Student Use of 4Cs

- *Besides receiving feedback from classmates, students report little online interaction with others for the purposes of both communication and collaboration.*
- *Secondary students report high use of technology to assist in critical thinking activities; however, teachers report nearly the opposite when asked if they ask students to use technology for these tasks.*
- *1/3 to 1/2 of elementary students report they never participate in critical thinking activities such as analyzing data, conducting experiments, and solving real world problems.*
- *With the exception of multimedia presentations, students report little use of technology for creativity.*

### Student Digital Citizenship

- *Elementary students are in need of a stronger digital citizenship curriculum, as 73% report that they are never taught how to share information about themselves online and 41% report they are never taught how to respond to cyberbullying. In addition, 1/4 to 1/3 of students say they never receive instruction in other areas of digital citizenship.*
- *36% of secondary students report never receiving instruction on how to share information about themselves online.*

### Student Beliefs

- *Student beliefs about the benefit of technology in education are overall positive.*
- *42% report that there are no obstacles preventing their use of technology at school. 39% report that school rules limit their technology use.*

## **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 37 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 the 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 *(also including home access, Wi-Fi buses, school and classroom Wi-Fi, etc.)*



**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 *(fewer traditional computer labs)*

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	Complete the district-wide wiring upgrade to CAT 6 cable with the last school install (New Castle Elementary) scheduled for Summer of 2019.	Tech Dept	completed by Aug 1, 2019  <i>complete</i>	eRate, KETS, General Fund	\$45,841.70	Network jacks test clean and at acceptable speeds.

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AA-3	Upgrade wireless at Eastern Elementary.	Tech Dept	completed by Oct 11, 2019  postponed to Jan 1, 2020  <i>complete</i>	eRate, KETS, General Funds	\$9,464.10	Device capacity per AP will increase.
AA-3	Upgrade wireless at Campbellsburg Elementary.	Tech Dept	completed by June 30, 2021	eRate, KETS, General Funds	\$11,547.00	Device capacity per AP will increase.
AA-3	Upgrade outdoor wireless and wireless bridges.	Tech Dept	completed by June 30, 2022	eRate, KETS, General Funds		Range and strength of outdoor wireless APs will increase.
AA-1	Continue to provide 1GB high-speed fiber between schools and the Central Office.	CIO, CFO	yearly	eRate, General Fund	\$31,025.28 per year	District will continue to receive positive responses on both the Impact KY and BrightBytes survey as it relates to the speed of Internet access. Tech Dept will periodically measure speeds to ensure 1GB is adequate.
AA-3	Upgrade network switches at all locations and core router.	Tech Dept, Vendor Partner	completed by Aug 1, 2021	eRate, KETS, General Fund	\$305,000	Network uptime and reliability will continue to meet the needs of students and staff, as currently hardware is nearing end-of-life.
AA-3	Replace workstations that are 6 years old or more.	Tech Dept, CIO, Principals	yearly	KETS, SBDM, School Activity Funds, General Fund	\$120,000 per year	Feedback on the quality of devices on the BrightBytes survey will remain stable.
AA-3	Continue to purchase Office 365 A3 licenses and Microsoft server licenses.	CIO	yearly	KETS, General Fund	\$17,000 per year	Student and staff licenses will be kept up-to-date to ensure lawful access to the latest server and workstation software.
AA-3	Upgrade Hyper-V cluster file servers and storage.	Tech Dept, Vendor	completed by June 30, 2022	KETS, General Fund	\$31,000	Server resources and performance will continue to meet the needs of

		Partner				students and staff. Efficiency of district tech staff will increase with the implementation of a Graphical User Interface. Performance.
AA-3	Continue to secure network maintenance.	CIO	yearly	eRate, KETS, General Fund	\$10,070.85 per year	Network uptime and reliability will continue to meet the needs of students and staff.
AA-3	Continue to secure file server maintenance.	CIO	yearly	KETS, General Fund	\$3,000 per year	Server resources and performance will continue to meet the needs of students and staff.
AA-3	Continue to secure phone system maintenance.	CIO	yearly - hardware 3-year software renewal due July 1, 2020	KETS, General Fund	\$7,100 per year \$5,300	Phone system reliability and performance will continue to meet the needs of staff.
AA-2	Acquire security cameras for New Castle Elementary compatible with Video Insight.	CIO, CFO, Principal	completed by June 30, 2022	General Fund	\$20,000	Security camera resolution and image quality will increase. Video storage will be centralized to one location, yielding more efficient management of equipment and software.
AI-1	Continue grades 6 through 12 1:1 and expand the 1:1 program to the elementary level.	CIO, CFO, Supt.	ongoing expanding to 5th grade in the 2020-2021 school year	General Fund, Capital Outlay, CARES	\$120,000	Definitive decision on district support for 1:1 district-wide will be made. Recurring costs on student devices will be better projected.
AA-2	Continue to provide a high-quality customer service experience for staff and students.	CIO	ongoing	n/a	n/a	70% of BrightByte responses on the quality of support will be Above Average or Excellent.  70% of BrightByte responses on the speed of support will be Same

						Day or Within One Hour.
AA-2	Purchase new teacher Chromebooks for at least grades 6 through 12.	CIO, CFO	completed by Dec 31, 2019 postponed to Dec 31, 2020	General Fund	\$20,000	Teachers will continue to have access to the same technology provided to students, enabling them to better plan for instruction.
AA-1	Prepare for the state Active Directory upgrade.	Tech Dept	2020-2021 school year	n/a	n/a	Technology personnel will be fully prepared to support the latest technology systems.
AA-1	Technology personnel will oversee the Lightspeed Relay implementation.	Tech Dept	complete by Aug 2020	n/a	n/a	A more reliable filtering solution will be deployed to all student devices.
AA-1	Technology personnel will attend online and/or in-person training on the new AD architecture and the new Lightspeed Relay system.	Tech Dept	complete during the 2020-2021 school year	General Fund, KETS	unknown	Technology personnel will be fully prepared to support the latest technology systems.



## **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 (*Infinite Campus, Early Warning, MUNIS, eTranscripts, School Report Card*)



**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 (*acceptable use policies, firewall updates, data privacy studies, digital citizenship, content filtering*)



**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 (*annual auditors, TELL survey, Technology Activity Report, Digital Readiness, Data Quality Study, Data Quality Campaign, BrightBytes, SpeakUp*)



**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 (*Infinite Campus, Early Warning, School Report Card, MUNIS*)



**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 (*The People Side of EdTech*)



**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	Conduct Staff Data Security and Privacy training via the Safe Schools training platform (note: Safe Schools is used for other training requirements as well).	CIO	yearly within the first month of school	General Fund	\$3,000 per year	100% completion rate of the training.
AA-2	Review Infinite Campus tool rights and group assignments.	CIO	yearly during the Summer months	n/a	n/a	Ensuring proper rights assignments will reduce the risk of unwanted access to data systems.
AA-2	Review AUP for possible areas to revise.	CIO, Ad Hoc Committee	completed by June 30, 2020	n/a	n/a	Acceptable Use Policy will address the latest laws, regulations, and best practices.
AA-2	Submit annual board notification of district security efforts.	CIO	yearly by Aug 1	n/a	n/a	Board meeting minutes will indicate that notification was provided.
AA-2	Collect Digital Citizenship Instruction Logs.	CIO	yearly prior to the end of the school year	n/a	n/a	Logs will provide documentation that digital citizenship instruction is taking place in accordance with CIPA and e-Rate requirements.
AA-5	Review Digital Citizenship curriculum and make revisions as necessary.	CIO	completed by Dec 31, 2019 <i>complete</i>	n/a	n/a	Ensure that students are provided with the most current information on appropriate online behavior.

AI-1	Determine district personnel responsible for the accuracy of specific data and in specific systems, e.g. MUNIS (payroll, purchasing), Infinite Campus (attendance, special education, scheduling), and create a comprehensive document outlining this information.	CIO, CFO, DPP, Asst Supt	completed by June 30, 2020	n/a	n/a	Data reporting will be more accurate and questions about data will be more efficiently directed to the appropriate personnel.
AA-3	Conduct the BrightBytes survey twice per year.	CIO	yearly in Oct and April	n/a	n/a	Sufficient number of responses from students and staff at each school will be received. Results will be used to inform education technology decisions.
AA-3	Conduct the Impact KY survey every two years.	Supt, Asst Supt	2019-2020 2021-2022	n/a	n/a	At least 90% of staff will respond to the survey. Results will be used to inform school-level decisions.
AA-2	Review compliance rules in Gmail settings.	Tech Dept	yearly by June 30	n/a	n/a	Use of compliance rules will help prevent phishing attacks in the Henry domain.
AA-2	Remove stale Active Directory and Infinite Campus accounts.	Tech Dept	yearly by June 30	n/a	n/a	Elimination of accounts no longer needed will reduce the risk of unwanted access to data systems.
AA-2	Audit network file/share permissions.	Tech Dept	yearly by June 30	n/a	n/a	Ensuring proper rights assignments will reduce the risk of unwanted access to data systems
AA-2	Audit workstation administrator rights. (Utilize Lansweeper to help with this task.)	Tech Dept	yearly by June 30	General Fund	\$300 per year	Ensuring proper rights assignments will reduce the risk of unwanted access to data systems
AA-2	Ensure that administrator	Tech Dept	completed by	n/a	n/a	Ensuring proper rights

	rights (DIST Support Admins, DIST Workstation Admins, access to various systems given to individual user accounts) are only given to SuperXX accounts.		June 30, 2020			assignments will reduce the risk of unwanted access to data systems.
AA-4	Ensure that data synchronization between software platforms is working as expected, including the use of Clever.	Tech Dept	yearly by June 30	n/a	n/a	Periodic comparisons between data systems will yield identical information.
AA-3	Investigate using Google Data Studio to help schools analyze interim assessment results and other data.	CIO, Asst Supt	completed by June 30, 2020	n/a	n/a	Generation of various data visualizations will help schools identify gaps, areas to improve, and areas to celebrate.
aa-2	Review account access to various internal and external systems, including KDE Applications.	CIO, Data Stewards	yearly by June 30	n/a	n/a	Elimination of accounts no longer needed will reduce the risk of unwanted access to data systems.



## 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 (*ex. Accounting for cost of ownership over the lifespan of equipment so monies are allocated for repairs/upgrades*)



**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 (*e.g. Internet consumption*) while maximizing education technology programs and initiatives (*Technology Need, E-rate*)



**AI-1:** Make districts aware of position/roles requiring technology-related duties in support of technology and instruction (*The People side of K-12 EdTech*)



**AI-2:** Make districts aware of how to reduce expenditures on printing/print services (*both in consolidated contract pricing as well as shifting from paper to digital experiences*)



**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	File for eRate eligible services and products.  See strategies in the infrastructure section for specifics on this	CIO	yearly  470 - by Dec 15 471 - by Mar 15 486 - by Oct 15 472 - quarterly or after purchase	n/a	n/a	The district will receive a 90% discount on fiber services (Category 1) and an 85% discount on internal connections (Category 2).
AI-4	Review Learning Outcomes data to evaluate investments in purchased apps/software	CIO, Asst Supt, Principals	ongoing	n/a	n/a	Schools will be better able to make informed decisions on the apps and software that they purchase.
AA-3	Post an RFP for fiber between schools and central office to begin in the 2022-2023 school year.	CIO, CFO	completed by Dec 15, 2022	n/a	n/a	Posting an RFP and referencing in a Form 470 will allow for the filing of a Form 471.
AA-3	Select a fiber service provider and sign a contract to begin services. (Will need state approval, as the lease will likely be greater than \$100,000 if more than a 3-year term.)	CIO, CFO, Supt	completed by Mar 15, 2022	n/a	n/a	Signing a contract and referencing in a Form 471 will be a necessary task in order to receive a 90% discount on fiber services.
AA-1, AI-2, AI-3	Investigate district-wide copier lease.	CIO, CFO	completed by June 30, 2022	n/a	n/a	Investigation will yield whether or not there would be a cost savings under a district-wide lease.
AA-2	Continue to lease or purchase Chromebooks for the 1:1 program.	CIO, CFO	yearly by June 15	General Fund	\$99,000 per year	All students in grades 6 through 12 will have access to their own digital learning device every day.

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	Refresh purchased Chromebooks for the 6th grade every 3 years.		completed by May 31, 2020 <i>complete</i>	General Fund	\$36,000	
AA-3	Continue to match KETS Offers and submit required reports/plans.  Technology Activity Report  Digital Readiness Survey  District Technology Plan.	CIO, CFO	yearly in Fall, Winter, Spring  yearly by July 31  yearly by July 31  yearly by May 31	n/a	n/a	The district will receive approximately \$80,000 to expend on education technology.
AA-2	Expand 1:1 to grades 3 through 5	CIO, CFO	grade 5 in 2020-2021  grade 4 in 2021-2022  grade 3 in 2022-2023  planned refresh every 4 years			
AA-3	Plan for the utilization of CARES Act money (ESSER and GEER) on items such as subscriptions to technology tools that aid in online learning, digital curriculum, salary for a Digital Learning Coach, devices for students, home access (?), and professional learning for teachers.	CIO, CFO, Supt, Asst Supt, DOSE	complete by Sept 2021	CARES	\$350,000	The district will expend federal monies strategically such that new resources are sustainable (if needed after 2 years) and short-term needs are prioritized.

AA-2	Plan for possible reduction in state funding (KETS) through a prioritization of yearly purchases and planned upgrades.	CIO, CFO, Tech Dept	complete by Oct 2020	n/a	n/a	Should Offers of Assistance be reduced over the next 2 years, the district will be able to eliminate or postpone purchases.
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**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 (*districts, vendors, higher-education, regional cooperatives*)
-  **AA-2:** Continue to utilize avenues of communication with shareholders allowing pertinent information and dialog to further student learning efforts (*Webcasts, BrightBytes, Technology Activity Report, KETS Service Desk, Office of Education Accountability studies, independent studies, etc.*)
-  **AA-3:** Continue to utilize tools engaging postsecondary institutions, community members, districts and families in student learning and life after K-12 (*eTranscripts, School Report Card and Dashboard tool, Infinite Campus parent and student portal, KDE Open House, Digital Readiness Survey*)
-  **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
-  **AI-3:** Build relationships with charter schools to determine policies and procedures related to architecture/design, systems security and privacy, services and reporting requirements

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 communicate with parents, students and the community through the district website, Facebook, Twitter and IC Messenger	DoC, District and School Leaders	ongoing	General Fund	\$5,580 per year for website \$2,760 per year for ShoutPoint	Parents, students and the community will receive timely updates regarding school events.
AA-1	Participate in OVEC's research grant involving the new Computer Science standards.	CIO, Teacher Participants	ongoing until June 30, 2022	n/a	n/a	Students in the participating teachers' classroom will have the opportunity to learn computer science.
AA-1	Work with iLEAD, the ATC, and JCTC to resolve any technology issues students may have.	Tech Dept	ongoing	General Fund	n/a	Students attending classes off campus will have access to the technology they need for their education.
AA-1	Participate in regional technology meetings: CIO meeting, technician's meeting, OVEC IT meetings	Tech Dept	monthly	n/a	n/a	Technology staff will build collaborative relationships with personnel in other districts
AA-1	Continue to volunteer for STLP state in a judging capacity or otherwise.	CIO	yearly in Mar/Apr	n/a	n/a	Volunteers will remain up-to-date on STLP events and competitions.



## 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 (*empowering students through technology with STLP, IT Academy, etc.*)



**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 (*based on International Society for Technology in Education standards*) 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 (*online formative assessment tools, interim based assessments, and summative assessments*)



**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-2	Regrow participation in STLP at both the regional and state level.	CIO, Asst Supt, Principals, STLP Coaches	ongoing	General Fund, Title IV	\$3,000 per year	Students will have the opportunity to participate and compete in one of the largest student competitions in the U.S.
AA-3	Support efforts in all schools to implement the new Computer Science standards.	CIO, Asst Supt	ongoing	n/a	n/a	Students will gain exposure to computer science knowledge and skills.
AA-3	Support implementation of the new Technology/Digital Literacy standards in all schools.	CIO, Asst Supt	ongoing	n/a	n/a	100% of graduates will be digitally literate.
AA-4	Use MAP and i-Ready data to inform instruction and curricular decisions.	Asst Supt, Principals, Teachers	yearly in Fall, Winter, Spring	General Fund	\$18,175 for MAP for i-Ready	Schools will be able to identify gaps, areas to improve, and areas to celebrate.
AI-3	Ensure sufficient technology resources are available for online state testing.	CIO, Asst Supt	yearly by Mar 31	General Fund		All students will have access to a device for state testing and wireless access points will support the capacity per classroom.
AI-1	Use Learning Outcome data to evaluate app and software correlation to student achievement.	CIO, Asst Supt, Principals	ongoing	n/a	n/a	Schools will be better able to make informed decisions on the apps and software that they purchase.
AA-1	Utilize the Summit Learning platform and curriculum at	Asst Supt, Principals	ongoing	n/a	n/a	Students will have the opportunity to learn in a project-based learning

# DISTRICT TECHNOLOGY PLAN

	Campbellsburg Elementary and Henry County Middle.					environment. Student achievement will demonstrate a positive effect from this approach.
AA-1	Continue to provide a 1:1 learning experience for Henry County Middle and Henry County High.	CIO, CFO, Asst Supt	ongoing	General Fund, KETS	\$132,000	All students in grades 6 through 12 will have access to their own digital learning device every day.
AI-2	Continue to support CTE programs by providing current technologies in each program area.	CIO, Asst Supt, HS Principal	yearly by Aug 1	SBDM, Perkins, KETS, General Fund	\$18,500 per year	The percent of students in CTE pathways who are career ready and have achieved industry certification will increase. (32% in 2017-2018 school year)
AA-2	Continue to refine the learning opportunities that the IT Help Desks at Henry County Middle and Henry County High provide.	IT Help Desk Manager	ongoing	n/a	n/a	Help desk students will have the opportunity to practice the knowledge and skills necessary to be a member of an IT support team.
AA-1	Utilization of various software for learning and assessment (list not exhaustive):  MOS Gmetrix ASK CompTIA Certiport Vouchers Adobe Creative Cloud CERT Odysseyware Xello Method Test Prep GradeCam Achieve 3000 Education Galaxy	District and School Leaders	ongoing	General Fund, SBDM, School Activity, KETS, Federal Funds	\$175,000 per year	Software and digital content will be used to support student instructional needs.

	i-Ready AIMSweb Reading A-Z/Raz-kids KYVL					
AA-2	Continue to participate in TSA competitions.	CTE Teachers	yearly	Perkins, School Activity	\$6,500 per year	TSA students will have the opportunity to develop STEM skills and compete in technology-related areas
AA-1	Share Danielson and 4Cs crosswalk work to schools. Offer professional learning around the document	CIO, Asst Supt	complete by June 30, 2020	n/a	n/a	Teachers and principals will gain a better understanding for what implementation of the 4Cs looks like in a digital environment.
AA-1	Secure any digital content that would supplement and/or enhance NTI days.	CIO, Asst Supt, DOSE	complete by Oct 2020	CARES	unknown	New learning will be more readily accessible by students and easier to implement for teachers during NTI days.
AA-5	Investigate blended learning models for a phase-in reopening of school: scheduled rotational, synchronous opt-in, hybrid.	CIO, Asst Supt	complete by Aug 2020	CARES	unknown	Schools will have a plan for reopening post the COVID-19 shut down.



**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	Send 2 teachers per school to the KySTE conference.	CIO	yearly in Mar	KETS, SBDM	\$5,000	Participating teachers will share ideas and resources with their school upon their return.
AA-1	Inform teachers of other technology-centered professional learning opportunities (IFL, #KyGoDigital, TeachMeetKY)	CIO	ongoing	n/a	n/a	Henry County will have teacher participation in one or more of these events.
AA-1	Provide 3 PD hours to teachers who receive Google Certification.	Asst Supt	ongoing	n/a	n/a	Google certifications attained by Henry County staff will increase.

AI-1	Use BrightBytes data around PD needs, instructional technology integration, and skills evaluation to target professional learning at each school.	Principals, Asst Supt, CIO	yearly in Apr/May	n/a	n/a	Schools will be better informed for the needs of teachers so that professional learning can be targeted toward those needs.
AA-1	Investigate the possibility of adding a district-wide Digital Learning Coach.	CIO, CFO, Supt, Asst Supt	completed by June 30, 2022	n/a	n/a	Teachers will have “just-in-time” access to professional learning as it relates student digital learning.
AA-1	Share Danielson and 4Cs crosswalk work schools. Offer professional learning around the document	CIO, Asst Supt	complete by June 30, 2020	n/a	n/a	Teachers and principals will gain a better understanding for what implementation of the 4Cs looks like in a digital environment.
AI-1	Determine and implement professional learning needs of teachers as it relates to online and blended learning	CIO, Asst Supt	2020-2021 school year	CARES	unknown	Teachers will be able to provide students with online learning experiences on par with in-person classroom experiences.



**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	Utilize the Summit Learning platform and curriculum at <del>Campbellsburg Elementary</del> and Henry County Middle.	Asst Supt, Principals	ongoing	n/a	n/a	Students will have the opportunity to learn in a project-based learning environment. Student achievement will demonstrate a positive effect from this approach.
AA-1	Utilize Odysseyware for students who need to get back on grade level at Henry County High (credit recovery).	HS Principal	yearly	HS SBDM, HS Activity	\$14,330 yearly	Students will graduate on time.
AA-1	Continue to provide Blended Learning courses at Henry	HS Principal	ongoing	n/a	n/a	Students will have increased opportunities to participate in

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	County High School.					work-based learning experiences
AI-1	Continue to provide outdoor wireless access to students and staff.	Tech Dept				Students will have access to online learning outside of the school walls and hours.
AA-1	Continue to provide a 1:1 learning experience for Henry County Middle and Henry County High.	CIO, CFO, Asst Supt	ongoing	General Fund, KETS	\$132,000	All students in grades 6 through 12 will have access to their own digital learning device every day.
AA-1	Continue to utilize Google Classroom as a method to expose students to online/virtual coursework.	CIO, District and School Leaders	ongoing	n/a	n/a	The number of active classes will remain steady or increase. Current average is around 250 classes.
AA-1	Investigate the possibility of adding additional blended learning courses such as US History or Algebra II.	Asst Supt, HS staff	completed by June 30, 2022	n/a	n/a	Blended learning opportunities will be extended to Juniors.
AI-1	Provide guidance on virtual meeting management, including scheduling to avoid conflicts, limiting video display, recording meetings, use with individual students for review/remediation.	Tech Dept, LMSs	completed by August 1, 2020	n/a	n/a	Staff will have access to best practices for conducting virtual meetings.
AA-1	Provide phone and email support for parents, students and staff during online learning days.	Tech Dept, LMSs	ongoing	n/a	n/a	Staff, students, and parents will have access to just-in-time technology support so that learning is minimally disrupted.
AI-1	Provide virtual learning help/tutorials to parents, students, and teachers.	Tech Dept, LMSs	create a website by August 2020 with ongoing updates	n/a	n/a	Parents, students and teachers will have access to resources to help them navigate the world of online learning.