Kentucky Education Technology System
DISTRICT TECHNOLOGY PLAN

DISTRICT NAME	Powell County
LOCATION	Stanton, KY
PLAN YEAR(S)	2020-2022

www.powell.kyschools.us

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Planning Team

District Staff [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
Jennifer Kincaid, CIO	A.J. Wells, CFO
Dr. Anthony Orr, Superintendent	Craig Bowen, Network Engineer
Dr. Stacy Linn, DAC	Jonathan Hall, Computer Technician
Gina Kinser, Lead Systems Analyst	
John Crowe, Lead Technician	
Building Staff [Recommended to included principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Doug Brewer, HS Principal	Jennifer Francis
Ashley Randall, MS Principal	Lisa Ballard
Julie Foster, BES Principal	Mary Beth Mink
Suzanne Meadows, CCE Principal	Crystal Neal
James Crase, SES Principal	Devon Pelfry
Additional District Contributors [Recommended to include board members, SBDM members, program directors, etc.]	

Students [Recommended to include middle and/or high school students]	
Student 1	
Student 2	
Other [parents/community members, business and nonprofit leaders, etc.]	
Parent 1	
Parent 2	

Previous Plan Evaluation

In this section include a discussion of the "expiring" *(previous year's)* plan using the prompts below. Attempt to limit your narrative to the space provided.

What goals were met?
Providing technical support to all schools.
Provide, maintain, and upgrade hardware, software and connectivity for all schools and buildings.

Goals that were not met or didn't have the expected outcomes?
Provide training for all school and district technology initiatives

Areas of improvement?
Providing training for GSuite and Google Level One Certification

Areas/goals that are no longer relevant?
Maintain VOIP and other phone services.

Needs that emerged after evaluation of the previous plan?
Providing students training, especially elementary students basic typing with testing moving to online

New Plan Preview

This is a high-level overview or executive summary of the plan as a whole. Attempt to limit your narrative to the space provided below.
[See Technology Planning section of KETS Master Plan for more information]

How did you and the planning team decide on the goals for this plan?

Looked at areas that staff were unsatisfied with technology. Conducting a technology survey via google forms.

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.

We will start the 2020-2021 school year with a survey for staff about their perspective of technology needs.

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)?

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.

In order to obtain a valid student voice we will include two students on our technology planning committee upon the start of the 2020-2021 school year.

We will also survey students at the beginning of the 2020-2021 school year.

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 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 student and staff through continued progress toward 1:1 student to computer ratio utilizing increased amounts of mobile devices *(fewer traditional computer labs)*

DISTRICT TECHNOLOGY PLAN

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)
AA2	Upgrade wireless network with a brokered network as a service partner including collapsing to a single SSID.	CIO, Vendor Partner	completed by Aug 1, 2019	Erate KETS General Fund Federal Program Grant School-based Other	$5000	Usage increases and devices connected increases.
AI-1	Update hardware inventory annually.	CIO Lead Systems Analyst	7/01/20- 6/30/22	N/A	N/A	Identify need for student/teacher/mobile machines
AI-1	Maintain 5 year refresh plan for workstations to maintain teacher to computer ratio of 1:1 and student ratio of closer to 1:1	CIO	7/01/20 - 6/30/22	KETS/Local Tech - $25,000 Vocational-$1320 Migrant-$577	$26,897	Identify areas of need for older machine replacement. Increase teacher and student access to technology
AI-1	Maintain technical service request process and provide support.	Computer Techs Network Engineer STC's	7/01/20 - 6/30/22	General Fund - $43705 KETS/Local Tech - $1250 (Goverlan) -$5,000	$49,955	Decrease downtime for all computers. Increase teacher productivity
AI-1	Purchase needed hardware for upgrading computers	CIO	7/01/20 - 6/30/22	KETS/Local Tech - $2000	$2,000	Increase speed and access to technology resources

AA-3	Maintain fiber service district-wide.	CIO Network Engineer	7/01/20 - 6/30/22	Erate if funded - $59,400 General Fund - $6600	$66,000	Maintain speed and access to technology resources
AA-2	Maintain software licensing for all servers and workstations.	CIO Computer Technicians	7/01/20 - 6/30/22	KETS – $13,000	$13,000	Increase teacher and student access to relevant software
AA-1	Backup all data servers and provide current warranty/software/maintenance renewals	Network Engineer	7/01/20 - 6/30/22	KETS/Local Tech - $10735 General Fund - $2273	$13,008	Maintain accurate data

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Data Security, Safety & Privacy
Future Ready Gear

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

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

AA-1: Continue to support districts in securely accessing and managing key student and administrative data sets through improved user experiences, refined data collection processes, continuously updated policies and practices regarding student data security, and timely access to data sets that improve the depth and efficiency of student learning *(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

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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	Provide direction and support to all schools for instruction in Internet Safety and preventing cyberbullying.	CIO	7/01/20- 6/30/22	Local Tech	$500	Increase student safety and awareness
AA-2, AI-1	Provide support to all schools in reviewing AUP annually with students.	Lead Systems Analyst STC's	7/01/20 - 6/30/22	N/A	N/A	Provide clear technology guidelines to students
AA-1	Maintain and monitor student email/user accounts.	Network Engineer	7/01/20 - 6/30/22	N/A	N/A	Increase student access. Increase communication
	Conduct survey for students and staff via google forms	CIO	8/1/20-9/30/20	N/A	N/A	Surveys are complete and data is disaggregated for use.
AA-1	Annual BOE update by August 31 of each school year	CIO	by 8/30 each year	N/A	N/A	Completion reflected in board minutes and agendas

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)
AI-3	Investigate funding resources for intelligent classroom components	CIO	7/01/20 – 6/30/22	N/A	N/A	Increase teacher /student access to technology resources and improve technology integration.
AI-4	Work with Instructional Supervisor to audit use of devices and programs	CIO	7/01/20 – 6/30/22	N/A	N/A	When funding is better spent on items that are being used with fidelity.
AI-2	Continue to shift the district to using digital instead of paper copies as much as possible	CIO	7/01/20 – 6/30/22	N/A	N/A	When our district relies on digital copies to share information more than they rely on paper copies.
AI-1	Continue to educate staff about all the roles of the technology department	CIO	7/01/20 – 6/30/22	N/A	N/A	We will be more efficient when others understand our roles and all the ways we can assist them.

Partnerships
Future Ready Gear

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

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

📍 **AA-1**: Continue to build trusted relationships with shareholders (families, districts, partners) that will reduce risk as well as increase transparency and communication *(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

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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	Purchase Schoolpointe Web Hosting Service	CIO	7/01/20 – 6/30/22	General Fund - $4000	$4,000	Increase communication between stakeholders
AA-3, AI-2	Support STLP at all schools.	CIO	7/01/20 - 6/30/22	Local Tech - $5000	$5,000	Increase student technology skills
AA-1	CIO will attend monthly state and regional meetings.	CIO	7/01/20 - 6/30/22	Local Tech – $600	$600	Stay current and updated on new and existing technologies
AA-2, AA-1	All members of the Technology Department will attend the KYSTE conference.	CIO Lead Sys. Analyist Network Engineer Technicians	7/01/20 - 6/30/22	KETS/Local Tech - $4000	$4,000	Increase awareness of emerging technologies
AA-1	Publish Tech Plan highlights to web, local paper, and social media	CIO	7/01/20	N/A	N/A	Inform all stakeholders

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-1	Review usage logs of existing online subscriptions and solicit feedback from teachers as to which programs are beneficial to student achievement.	Systems Analyst Federal Programs Coordinator	7/01/20 – 6/30/22	N/A	N/A	Prioritize needed purchases most beneficial for classroom instruction
AA-2	Provide technical support to all schools	All Tech Department	7/01/20 – 6/30/22			Provide support to the district to increase student achievement
AA-4	Purchase software/ online subscription for student tech literacy assessment.	CIO	7/01/20 – 6/30/22	KETS/Local Tech - $1000	$1,000	Evaluate technology proficiency demonstrated by our students
AA-4	Determine hardware needs and provide support for all online testing.	CIO Network Engineer Lead Sys An	7/01/20 – 6/30/22			Meet the requirements needs for successful implementation
AA-2	STLP student involvement	CIO STLP Distrcit Coach STLP Building Coaches	7/01/20- 6/30/22	KETS/ Local Tech	$5,000/ year	Increased involvement in regional and state competitions. Increased numbers of students involved.
AA-2	Assessment of NTI during Covid-19	CIO Lead Systems Analyst DAC	7/01/20- 12/31/20	N/A	N/A	Survey staff and students to build NTI capacity from a technology standpoint.

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)
AI-1	Share (via email and teachers' meetings) G-Suite, Apps, and activities.	Lead Systems Analyst CIO	7/01/20 – 6/30/22	N/A	N/A	Increase technology integration in classroom instruction
AI-1	Provide support to staff in the form of PD throughout the school year.	CIO Lead Systems Analyst	7/01/20– 6/30/22	N/A	N/A	Provide clear technology guidelines to staff
AI-1	Provide job embedded PD opportunities for all staff in technology integration.	CIO Lead Systems Analyst	7/01/20– 6/30/22			Increase teacher proficiency for instruction

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)
A1	Increase push for a true 1:1 environment in at least 3-12 grades.	CIO, Lead Systems Analyst, CFO, DAC	7/1/20- 6/30/21	KETS, Local Tech, Federal Funds	Will be dependent on # of devices and current prices. Estimate $20,000	When all our students in grades 3-12 have a mobile device assigned specifically to them.