

# DISTRICT TECHNOLOGY PLAN

**DISTRICT NAME** Bardstown Independent School District

**LOCATION** Bardstown, KY

**PLAN YEAR(S)** 2019-2023



[www.bardstown.kyschools.us](http://www.bardstown.kyschools.us)

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## Planning Team

<b>District Staff</b> [Recommended to include CIO/DTC, TIS/DLC, technician, finance officer, superintendent, academic officer, DAC, etc.]	
Dr. Ryan Clark, Superintendent, Technology CIO	Tim Beck, Director of Curriculum, Instruction, Assessment 6-12
Michelle Spalding, Director of Curriculum, Instruction, Assessment PreK-5	Lance Boston, Director of Exceptional Children Program
Roman Hardin, Tech Department, BCS	Tracey Rogers, District Finance Officer
Paul Bowling, Chief Information Officer	J.W. Mattingly, Technology Integration Specialist
<b>Building Staff</b> [Recommended to included principals, LMS, STC, counselors, teachers, teaching assistants, etc.]	
Brian Courtney, Principal Bardstown Elementary School	Greg Spears, Business Teacher, Bardstown High School
Greg Spears, STC Bardstown High School	Amy Flanagan, Bardstown High Media Specialist
Dawn Greenwell, STC Bardstown Middle School	Tracy Cahoe, Bardstown Middle Media Specialist
Cathy Osborne, STC Bardstown Elementary	Cathy Osborne, Bardstown Elementary Media Specialist
Lisa Hamilton, STC Bardstown Primary	Marci Ballard, Bardstown Primary Media Specialist
Jennifer M. Hagan, Teacher, Bardstown Early Childhood	Kelsey Taylor, Teacher, Bardstown Elementary School
<b>Additional District Contributors</b> [Recommended to include board members, SBDM members, program directors, etc.]	
<b>Students</b> [Recommended to include middle and/or high school students ]	
<b>Other</b> [parents/community members, business and nonprofit leaders, etc. ]	

## Previous Plan Evaluation

### What goals were met?

#### **Goal 1: Greater and more meaningful, voice communication, interaction and collaboration between family, school and community.**

- Continued voice T1 (23 SIP Trunk) lease from AT&T for voice/phone services
- Continued voice (Mobile/Smart phones) plan with AT&T Mobility
- Continued internet services for point to point services to Templin Campus (A-school) with City of Bardstown
- Continued subscription with eSchool for hosted web pages and Bardstown App
- Continued subscription with Infinite Cohesion for parent/community voice/email/text communication

#### **Goal 2: Provide enhanced digital and/or print communications for administration, teachers, parents and students from school or at home.)**

- Continued subscription with Infinite Campus for cloud-based student information system
- Continued subscription with Tyler Forms for financial/payroll/employee management system
- Continued subscription for tax financial information
- Continued provision of cloud digital storage for staff/teachers/students via google drive
- Continued subscription for Teacher Substitutes (Frontline)

#### **Goal 3: Curriculum and Instructional Integration Goals (Improved student learning and preparedness for college and career readiness.)**

- Continued subscription for MAP Assessment for Bardstown Middle, Elementary and Primary Schools
- Continued subscription with SHI Microsoft EES for Microsoft Office (Word, Excell, Powerpoint, etc)
- Continued subscriptions for various web-based instructional learning systems to support teaching and learning, credit recovery
- Continued engaging staff and students in using cloud-based tools like google docs

#### **Goal 4: Learning: Engage and Empower - Priority: Capacity Building: Enhancement of Staff and Resources**

- Continued providing appropriate professional development in utilizing technology resources across curricular area
- Continued providing technical support via Technology Help Desk
- Continued providing part-time Technology Integration Specialist to build teacher/staff technology capacities
- Continued providing support for teacher innovations such as paperless classroom, flipped classroom, collaboration

**Goal 5: Infrastructure and Management: Access and Enable - Anytime, Anywhere, Always-On for staff and students.**

- Completed wireless infrastructure in all buildings (planned for 30 devices in classrooms)
- Maintained current 2.0 Network/Technical support staff
- Initiated projector/smartboard replacement plan with networked interactive display panels - starting with Primary and High schools
- Continued to enhance staff and student device access with purchasing and enrolling chromebooks
- Enhanced staff/teacher/student digital file access/collaboration by initiating greater use of cloud file storage with Google Drive

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

- 100% replacement of aging projectors/smartboards did not occur - currently phasing replacement
- Limited use of the Bardstown App - need to re-evaluate subscription
- Various subscribed cloud resources not use efficiently - need to demonstrate commitment

***Areas of improvement?***

- Need to enhance staff/teacher/student capacities in google G-Suite production/collaboration
- Efficient use of subscribed cloud-based instructional resources

***Areas/goals that are no longer relevant?***

- Wireless infrastructure has been completed - anticipate another 5-Year cycle of USAC Internal Connections
- Some computer labs will be replaced with wireless devices - making more rooms available for more flexible instruction

***Needs that emerged after evaluation of the previous plan?***

- Need to enhance instructional technology coordination
- Inter-staff collaboration and information sharing needs enhancement - google G-Suite /drive training

## 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?***

- District/School staff Survey
  - Review of Technology Survey Data: The Instructional Technology data from a District perspective was significantly different from each school. Common themes arose, such as the need for additional Chromebooks, the need for interactive displays, and training.
  - Technology Activity Report
  - Digital Readiness Report
  - Technology Inventory Analysis
  - Tell Survey: 100% of Teachers report having access to reliable communication technology, including phones, faxes and email.
  - Tell Survey: 95% of teachers report having sufficient access to instructional technology, including computers, printers, software and internet access.
  - Tell Survey: 95% of teachers report having sufficient access to appropriate instructional materials (including software and internet-cloud-based resources.
  - Tell Survey: 95% of teacher report having sufficient support to use effectively the state-approved electronic platforms.
  - Tell Survey: 90% of teachers report having sufficient access to a broad range of professional support personnel - including Technology staff and Technology Integration Specialist
  - Tell Survey: 93% of teacher report having a physical environment of classrooms that support teaching and learning - including instructional technologies in the classroom.
- Bardstown Early Childhood
  - Review of the survey data shows that BECEC teachers are in need of ongoing training in the area of technology. They indicated that a top tech priority should be the maintenance of existing Smart Boards.
  - Reviewed Connections to Innovation Actions from Spring 2019: Continued work with staff on Google platform for lessons and teacher communications.
  - Reviewed Concerns/Obstacles/Challenges for next steps: Current limitations regarding Kentucky expectations of hands on activities and limitations on technology use.

- All staff will be Google Level 1 Certified by end of the 2019-2020 school year.
- Meeting individual training needs for teachers related to Interactive Displays and technology usage.
- Bardstown Primary School
  - Review of Technology Survey Data: Review of the survey data shows that BPS teachers are in need of up-to-date interactive computer projection panels in all classrooms. Currently, 1/3 of the need has been met. This remains our priority as projectors and SMART panels continue to lose functionality. Ten interactive panels have been installed with a remaining 23 needed.
  - Connections to Innovation Actions from Spring 2019: BPS will continue to provide professional development support for interactive panels throughout the installation process and beyond.
  - Concerns/Obstacles/Challenges for next steps: Our greatest concern/challenge is that the identified area of need (interactive panels) is only 1/3 complete. We would like to be at 100% at the start of the 2019-20 school year. We are also experiencing electrical/wiring issues in some classrooms that have updated panels and this is limiting the use of these panels and other technologies such as chromebooks.
  - Draft Goal(s) for 2019-2020
    - All certified staff will be Google Level 1 Certified by end of the 2019-2020 school year.
    - Each instructional space will be equipped with a working interactive panel.
    - Increase the number of working devices and peripheral devices in each classroom as part of a 1:1 initiative.
- Bardstown Elementary
  - Review of Technology Survey Data: Based on survey data, BES teachers are in need of additional Google Docs training as well as a set of Chromebooks for each classroom.
  - Connections to Innovation Actions from Spring 2019: BES has an additional 180 new Chromebooks that will be available for use starting the 19-20 school year. Teachers will receive intensive Google Docs Professional Development during the summer of 2019 and continue forthcoming.
  - Concerns/Obstacles/Challenges for next steps: Our biggest concern/challenge is 100% implementation and buy in from teachers and staff. Additionally, Chromebook maintenance procedures; who repairs and how often?
  - Draft Goal(s) for 2019-2020
    - All staff will be Google Level 1 Certified by end of the 2019-2020 school year.
    - Introducing Google classroom and training on how teachers can use it as a learning platform.
    - Explore effective strategies on becoming 1 to 1.
    - Beginning phases of interactive panels.

- Bardstown Middle
  - Review of Technology Survey Data: The primary component of the survey data was the expansion of Chromebook usage. This has been completely addressed and will open new doors for staff and students.
  - Connections to Innovation Actions from Spring 2019: BMS will continue to expand the usage of Google tools by both staff and students to leverage the Chromebooks in the building.
  - Concerns/Obstacles/Challenges for next steps: Our biggest concern/challenge is training staff to effectively use the technology resources available to impact student achievement. The first step will be to implement usage on a wider scale among the staff, then to use the SAMR (Substitution, Augmentation, Modification, and Redefinition) model to change how we use technology with students
  - Draft Goal(s) for 2019-2020
    - All staff will be Google Level 1 Certified by end of the 2019-2020 school year.
    - Implementation of Google Classroom for all teachers.
- Bardstown High
  - Review of Technology Survey Data: Based on the survey data presented, new displays along with more professional development opportunities were identified to be the top needs of BHS.
  - Connections to Innovation Actions from Spring 2019: 10 New Interactive/Non-Interactive displays will be purchased and placed in core content areas.
  - Concerns/Obstacles/Challenges for next steps: Moving forward professional development opportunities dealing with technology and its integration are still a concern. Other challenges are the need to replace all interactive/non-interactive displays throughout building within the next two years to update a technology that has lasted far longer than expected.
  - Draft Goal(s) for 2019-2020
    - All staff will be Google Level 1 Certified by end of the 2019-2020 school year.
    - Replacement of older model projectors to new interactive/non-interactive in areas not previously updated.
    - Identify needs of staff for integration/implementation of technology within class settings.

***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.***

- Review of Technology Survey Data: The Instructional Technology data from a District perspective was significantly different from



each school. Common themes arose, such as the need for additional Chromebooks, the need for interactive displays, and training.

- Connections to Innovation Actions from Spring 2019: Steps were taken to add displays at two schools (BPS, BHS), add Chromebooks (BMS, BES), and to ensure everyone will have Google Level 1 Certification by the end of next school year.
- Concerns/Obstacles/Challenges for next steps: Continuing cost of technology and upgrades. How each school plans to meet their training goal of Google Level 1 certification.
- Draft Goal(s) for 2019-2020
  - All staff will be Google Level 1 Certified by end of the 2019-2020 school year.
  - Monies will be allocated at the District Level to ensure funding for next steps as related to the need shown by committee data.
  - All schools will expand their current use of of Google as a Learning Management System, (LMS) and communication tools for Professional Learning Communities (PLSs).
  - All schools will migrate to Google calendars using a common naming convention.
  - Each instructional space will be equipped with a working interactive panel.
  - Increase the number of working devices and peripheral devices in each classroom as part of a 1:1 initiative.
  - Steps were taken to add displays at two schools (BPS, BHS), add Chromebooks (BMS, BES),
  - Meet individual training needs for teachers related to Interactive Displays and technology usage.
  - Systemic Data will be collected and analyzed on Instructional Technology use for next steps.
  - Expansion of Google as a LMS using Google Classroom

## 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)
AA-1	Continue subscribed Fiber connect Templin Campus (RECC Property) to Bardstown ISD WAN via Bardstown City Cable	Technology Department Finance Officer USAC Officer	Ongoing/Yearly	USAC General Fund	\$5,400	Templin Campus maintains 1 gb connection to MDF in Middle School
AA-1	Refresh aging/dying APC's (Battery Backup) in all wiring closets across all campuses	Technology Department Finance Officer USAC Officer	2019-2021	General Fund USAC	\$30, 256	Replacement records/technology inventory
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	\$5,000	Usage increases by 50% and devices connected increases by 20% per day.
AA-3	Continue to follow refresh wireless access in all buildings/replacements	Technology Department	2019-2023	KETS	\$5, 000	Schools will have classroom internet access based on 30 unit per classroom and greater in common areas.
AA-4	To provide a safe and monitored environment for administrative processes. Both hosted and cloud solutions.	Technology Department	2019-2023	General Fund	To be Determined	By installing access control, cameras, visitor check in stations, panic buttons and bus routing software. This ensures a successful, efficient and safe environment for our staff and students.

# DISTRICT TECHNOLOGY PLAN



AI-1	Continue to purchase/refresh rate on end users devices by budgeting needed funds.	Technology Department Finance Officer Tech Committee Superintendent	2019-2023	General Fund	25,000	Schools (especially Middle School) will implement 1:1 with chromebooks within the classroom.



## 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)
AA-1	Continue 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	Superintendent District and School Admin Staff Teachers	2019-2023	General Fund	40,308	Secure subscriptions for (Infinite Campus, MUNIS, eTranscripts, School Report Card) Google Drive and Team Drives
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	Superintendent District and School Admin Staff Teachers	2019-2023	General Funds State Funds KETS Funds	Local and State	Student and Staff acceptable use policies, firewall updates, data privacy analyses, student and staff digital citizenship, content filtering with Lightspeed
AA-3	TELL survey data employees/families	Admin Staff in all schools	2019-2023	State Funds	N/A	Staff/community report access and usage of technology resources
AA-3	Expand digital citizenship education across schools	Admin Staff in all schools	2019-2023	N/A	N/A	Student records with Digital Driver Licences

# DISTRICT TECHNOLOGY PLAN

AA-5	Continue professional learning and implementation of LightSpeed filtering system	Technology Department	2019-2023	N/A	State Funded	<p>Staff/teachers will understand what and why content is filtered.</p> <p>Staff/students will have a better understanding of responsible digital citizenship</p>
AI-1	<p>Initiate Annual confidentiality training to include data security and privacy as well as permissioning issues and communication (SSN, IEP, FRAM, SPED, Google, etc.)</p> <p>District IC team user groups and rights</p> <p>Review current process/procedures for monitoring and consequences for data security/privacy</p>	<p>Director of Human Resources</p> <p>Director of Assessment</p> <p>Director of Special Education</p>	2019-2023	General Funds	N/A	<p>Professional learning records of training completion (100% staff)</p> <p>Auditing/monitoring of IC user rights (annually)</p> <p>Updated policies/procedures regarding data security/privacy</p>



## 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)	Anticipated	Anticipated	Anticipated	How will you know this is
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# DISTRICT TECHNOLOGY PLAN

		Involved	Timeframe	Funding Source	Funding Amount	successful? (including metrics)
AI-1	Introduce and engage staff with Tech Department staff	Technology Department	2019-2023	N/A	N/A	Staff will know Tech staff members; learn to create Help Desk Tickets; Review of ticket submissions
AI-1	Continue funding of Digital Coach and Instructional Technology Coordinator	Personnel Finance Officer Tech Department	2019-2023	General Funds	100,,000	Coordination and enhancement of access and training on digital resources will be measured by teacher survey and PD logs.
AI-1	Maintained current 2.0 Network/Technical support staff	Personnel Finance Officer Tech Department	2019-2023	General Funds	135,000	Measured by employment records
AI-2	Continue to engage staff/teachers/students in moving forward with less printing and more digital collaboration	Tech Committee Principals	2019-2023	General Funds	Savings to be determined	Reduction in print copies report Teacher tech surveys
AA-3	Take full advantage of E-rate & KETS funding to maximize technology across the district.	CIO/DTC; Finance Officer	2019-2023	USAC for Internet Access for Templin Campus  CAT 2 Internal Connections	\$5,400  Hopefully a new 5 -year plan	Un-interrupted point to point access for Templin Campus  Upgrade/refresh network switches and/or Wireless Access Points



## 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

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Continue to engage staff/teachers/students/ community using informational tools: Instant Connect; Bardstown App; Webpages; Facebook; Twitter, etc.	Director Public Relations Principals School Councils	2019-2023	General Funds	N/A	Parent surveys; Communication logs/records
AA-2	Continue to utilize avenues of communication with shareholders allowing pertinent information and dialog to further student learning efforts with district level reports	Director Public Relations Tech Department Principals	2019-2023	General Funds	N/A	Published District Reports; CDIP, CSIP's Finance SBDM Technology Board Minutes
AA-2	Engage staff to use the Helpdesk in all schools  Develop Student Help Desk Programs Middle, and High Schools	Technology Department  Guidance Offices	2019-2023	N/A	N/A	Staff submit HelpDesk tickets rather than email/phone/drop by Tech Center and analysis  High School students (all positions possibly becoming paid positions/co-op and high school help desk) Apprenticeships
AA-3	Engaging Community with student technology.	Instructional Technology Coordinator	2019-2023	N/A	N/A	Open House School Report Card and Dashboard tool, Infinite Campus parent and student portal

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AA-3	Continue to utilize tools engaging postsecondary institutions, community members, districts and families in student learning and life after K-12	Director Public Relations Tech Department Principals	2019-2023	N/A	N/A	eTranscripts, School Report Card and Dashboard tool, Infinite Campus parent and student portal, Open House, Digital Readiness Survey
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## 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-4	All secondary school staff support students in the creation and continuous update of their Individual Learning Plans (ILP)	District Instructional Team District Assessment Coordinator School Principal/ Guidance Department	2019-2023	General Fund	N/A	Continuous progress of students can be tracked and used for design of instructional interventions
AA-4	The district will continue implementation of NWEA MAP online assessment for grades K-2.	Assessment Coordinator School Principal/ Guidance Department	2019-2023	General Fund	To be Determined	Continuous progress of students can be tracked and used for design of instructional interventions
AA-4	Continue to offer computer/MS Office courses at High/Middle schools	School Staff	2019-2023	General Fund	To be Determined	Students will engage in Microsoft certification at high school  Middle school students are introduced to MS Office
AI-1	Replace aging Smartboard and projectors with Interactive panels in Primary School	Finance Officer Tech Committee Tech Department	2019-2023	General Fund	Units \$75,000 Install \$27,000	Measured by inventory counts and teacher record of usage
AI-1	Purchase and install digital	Finance	2019-2020	General Fund	To be	Measured by inventory counts and

# DISTRICT TECHNOLOGY PLAN

*Bardstown City Schools*

	panels in the High School	Officer Tech Committee Tech Department			Determined	teacher record of usage
AI-1	Purchase/refresh chromebook rate in Middle School (300 chromebooks)	Finance Officer Tech Committee Tech Department	2018-2019	General Fund	312 Units \$67,395 16 charging units \$6,580	Measured by inventory counts and teacher record of usage
AI-1	Replace N-computing systems in all Elementary classrooms with 180 chromebooks and 6 carts	Finance Officer Tech Department TEch Committee	2019-2020	General Fund	180 Units \$47,514  \$8,994 for six carts	Measured by inventory counts and teacher record of usage



## 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	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.	Team Instructional Technology Coordinator Digital Coaches	2019-2023	General Funds	PD	Training on Google Drive/Team Drive file share and collaboration email/voice/text communication
A1-1	All staff will be Google Level 1 Certified by end of the 2019-2020 school year.	Professional Development Team	2019-2020	General Funds	PD	Teachers will receive Google's Level 1 Certification demonstrating competency in google docs and



# DISTRICT TECHNOLOGY PLAN

		Instructional Technology Coordinator Digital Coaches				drive.
AA-1	Schools migration to Google collaborative calendars	Professional Development Team Instructional Technology Coordinator Digital Coaches	2019-2020	General Funds	N/A	Staff/Teachers will utilize shared/collaborative calendars for planning and information sharing
AA-1	District instructional staff will provide ongoing support to determine the best tool to meet the learning objective.	Instructional Technology Coordinator/ STC's	2019-2023	General Funds	To be determined as needed	To be determined depending on changes to job description
AA-1	STC will attend monthly meetings with district staff to share and receive updated information/resources for technology integration in their respective buildings.	Instructional Technology Coordinator/ STC's Tech Department	2019-2023	General Funds	To be determined as needed	Job Description will clearly define the role of the STC
AA-1	Professional development and training that follow state and district PD design will allow for classroom integration of technology for improving and enhancing student learning in all content areas	Professional Development Team	2019-2023	General Funds	To be determined as needed	Walkthroughs, Student engagement, Student use of technology, Lesson Plans
AI-1	District will provide support to the Media Specialists and	Instructional Technology	2019-2023	General Funds	To be determined	Classroom teachers come to the media centers to implement

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	teachers in using the Makerspaces to aid instruction.	Coordinator/ STC's			as needed	Makerspace activities
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## Use of Space & Time

Future Ready Gear

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

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



**AA-1:** Continue to provide guidance, support and resources for districts in the development and application of high quality online/virtual coursework as well as implementation of learning management systems



**AI-1:** Educate and support districts in the implementation and facilitation of digital learning tools and portable technologies that foster anywhere, anytime access for staff and students

KETS AA or AI	Strategy	Person(s) Involved	Anticipated Timeframe	Anticipated Funding Source	Anticipated Funding Amount	How will you know this is successful? (including metrics)
AA-1	Continue and advance resources from support in development and application of high quality online/virtual coursework	Instructional Technology Coordinator STC's Tech Department	2019-2023	General Funds	To be Determined as needed	-The advancement of resources being used by teachers. -Tech Day Training Options -STC/STA being more knowledgeable and able to help
AA-1	Google Classroom as online/virtual classwork	Instructional Technology Coordinator STC's Tech	2019-2023	General Funds	To be Determined as needed	All teachers are constantly using google classroom with students for meaningful lessons. -Using for Gifted students -Using for struggling students (RTI)

# DISTRICT TECHNOLOGY PLAN

		Department				
AI-1	Computer Lab Teachers having a curriculum with students on different lessons to learn on how to use a device.	Instructional Technology Coordinator STC's Tech Department	2019-2023	General Funds	To be Determined as needed	Students will be assessed on MS Office and/or Google Docs skills by Lab Coordinators
AI-1	Demo Computer Lab in BMS Rm 252 for more flexible learning environment for hand-held devices	Principal Tech Department	2019-2020	General Funds	To be Determined as needed	Increase classroom availability for flexible learning - grouping and regrouping with wireless devices
AI-1	Establish Day Treatment program utilizing office and classroom spaces in North Apartment building with voice/data and wireless devices	Sped Director Tech Department	2019-2020	General/KETS funds	To be Determined as needed	Provide 2 Day Treatment classrooms; group therapy room; calm down room; phones, staff workstations, student instructional devices; Move ISAP to new space