2018-2019
Henderson County Schools EdTech Strategic Plan
Henderson, Kentucky

Plan Start Date: July 1, 2018
Plan Expiration Date: June 30, 2019

Acknowledgments

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Executive Summary

This technology plan outlines the initiatives of Henderson County Schools to incorporate technology into classroom instruction, assessment, school administration and communication with home and community to achieve the goals and visions of the local board of education. The goals and activities in this plan are ultimately intended to promote student achievement and preparation for college and careers upon graduation.

This Henderson County Schools Technology Plan is aligned with the Henderson County Schools Board Goals/Objectives as listed here:

1. Henderson County Schools will prepare all students to be post-secondary ready.

2. Henderson County Schools will create future-ready leaders defining Henderson County as a community with the highest level of integrity and innovation.

3. Henderson County Schools will ensure a strong financial structure that guarantees excellence through creativity and innovation.

4. Henderson County Schools will seamlessly partner with families and community organizations through targeted outreach and engagement.

5. Henderson County Schools will sustain an exemplary staff by creating a dynamic and compassionate culture.

The strategies and instructional outcomes listed in the plan ensure the effective use of technology to promote parental involvement and increase communication with parents. Parents will be informed of the technology being applied in their child's education by newsletter, Blackboard ParentLink message delivery, on district and secondary school marquees, via Twitter & Facebook, local board and SBDM meetings, and through webpage delivery of information.

Planning Process and Methodology

During the 2017-2018 school year, the Director of Technology and Director of Instructional Technology attended meetings of the District Leadership Team and business meetings with the school principals group. The Director of Technology attended monthly meetings of the West KY Assoc. of Technology Coordinators (WKATC), The Director of Instructional Technology attended monthly Region 1 TIS meetings, and both attended monthly meetings of the Henderson Co. Board of Education and the annual Council of Councils meeting of the board. The Director of Technology attended the WKATC Tech (wirehead) sessions. Meetings were conducted during the school year with school technology coordinators (STC) from each building. Technology integration into instruction and technology networks/systems across the district were discussed at District Leadership meetings, District Instructional Team meetings, at principal's business meetings, and at each STC meeting. One of the purposes of discussion with these groups was to identify the technology needs for the district and schools and discuss best practices for technology as it is (and can be) used for classroom instruction.

The District's Director of Instructional Technology and the Director of Technology along with 55 other faculty, administrators and technicians attended the 2018 KySTE Conference. The information and resources gathered from this conference are considered for implementation during the 2018-2019 school year, and information from conference sessions will be passed to district instructional staff via professional development sessions/trainings.

The Director of Instructional Technology regularly visits schools as to promote effective integration and note technology needs in each building. The needs and resources at each school are shared with the District Technology (Technical and Instructional) teams in order to ensure needs are appropriately addressed.

Implementation

All school technology coordinators (STC), school technology assistants (STA), the Director of Instructional Technology and Director of Technology, are considered members of the district technology team and will be responsible for assisting in implementation of the district technology plan. A request for input from other school and district staff members for the technology plan will be ongoing.

Evaluation

All members of the STC and STA groups, the Directors of Instructional Technology and Technology serve as members of the district technology team, will be responsible for assisting in evaluation of the district technology plan.

Current Technology and Resources

Our current staff and technical resources are listed in the table below.

Item	Current Number	Planned Number
Staffing:		
Technical - District Level	9	9
Technical - School Level	4	4
Instructional – District Level	1	1
Instructional – School Level	14 13 STC's 1 Digital Learning Coach	15 13 STC's 2 Digital Learning Coaches
Computer Workstations (Desktop, Laptop & Chromebooks - Staff & Student)	9,333	11,078
Servers	56	57
Telecommunications:	**Current Number**	**Planned Number**
VoIP	948	960
DID Circuits	0	0
DID Numbers	948	960
Phone Lines	50	30
Key Systems (Access Control)	6	7
Cell Phones	10	10
Wide Area Network (WAN):	**Current Number**	**Planned Number**
Dark Fiber	15	15
1 Gigabit Single Mode Fiber	1	1
100 Megabit Single Mode Fiber	0	0
10 Megabit Single Mode Fiber	0	0
T-1 Circuit	0	0
Local Area Network (LAN):	**Current Number**	**Planned Number**
Wiring Closets (10GB Uplinks)	49	50

1 Gigabit Ethernet Ports	8894	9014
100 Megabit Ethernet Ports	0	0
Wireless 802.11 B/G/N	646	660
Classroom Instructional Devices:	**Current Number**	**Planned Number**
Whiteboards	516	525
Projectors (ceiling mounted / mobile)	610/24	624/25
Sound Amplification Systems	40	82

Staff Resources

Our district technology staff has constant contact with all school level technical staff. This allows for timely resolution of technical issues. We have established help desk services at the district level, and we operate an online/email system for technology work order maintenance when reporting technology issues throughout the district.

The district was able to add a Digital Learning Coach to support our two middle schools throughout the implementation of the 1:1 initiative. This has proven to be a great resource for our faculty.

All district technical staff are housed on the same campus with constant contact to share information/knowledge of technical issues. Professional training services are contracted on an as-needed basis.

School technology coordinators attend meetings with the Director of Instructional Technology who disseminates instructional technology information and provides training as needed and requested by schools. These meetings are scheduled monthly.

Maintenance and Upgrade

Our district will continue to upgrade classroom instructional technology equipment to meet KETS standards by using local funding, KETS funding, and federal funding.

Our district will continue purchasing mobile instructional devices to meet the instructional needs of our students.

Our district will continue to expand on the deployment of mobile devices to achieve a 1:1 ratio.

Our district provides high-density wireless access throughout all district classrooms and buildings.

A continuing initiative includes revision of district facilities plans to expand access control systems, video cameras, and IP based emergency response systems.

The technology staff will continue to support and maintain the 56 servers that are in operation and continue to evaluate new ways to increase efficiency.

The district technology team is an intrical part of the school safety initiatives for Henderson County Schools. Access Control, Security Cameras, and Internet content filtering are all managed within the Technology Support Center.

All school facilities have equivalent resources, support, and technology access. Thus, all students regardless of socioeconomic status have access to technology resources.

Curriculum and Instructional Integration Goals

Goal 1

Henderson County Schools will prepare all students to be post-secondary ready and will create future-ready leaders; defining Henderson County as a community with the highest level of integrity and innovation.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
The district will continue implementation of NWEA MAP online assessment for grades K–8.	Continuous progress of students can be tracked and used for design of instructional interventions.	NWEA Reports of student growth/progress	2018 – 2019 ongoing	District Instructional Team District Assessment Coordinator School Principals	General Fund
Compass Learning and/or IXL will be implemented at some elementary schools as part of Kentucky's System of Interventions (KSI) to promote both 'catch up' growth and accelerated growth in students.	Student achievement levels in core content subjects will be increased.	Compass Learning / IXL reports NWEA Reports of student growth/progress	2018 – 2019 ongoing	Classroom Teachers Assistant Superintendent of Teaching and Learning	Title I Title II IDEA B General Fund
Read 180 and System 44 which are Scholastic © Reading Intervention programs will continue to be implemented at North Middle School, South Middle School, Central Academy (CAS), Bend Gate Elementary, and Henderson County High School as a response to intervention (RTI) for	Student achievement levels in reading will be increased.	Read 180 Reports System 44 Reports NWEA Reading Growth/Progress Reports	2018 – 2019 ongoing	Trained classroom teachers in each middle school and high school. Middle and high school principals Assistant Superintendent of Teaching and Learning	General Fund

				Director of Special Education	
Headsprout ©, an early intervention reading program, will be used to promote early reading readiness skills.	Student achievement levels in reading will be increased.	Headsprout Reports	2018 – 2019 ongoing	Assistant Superintendent of Teaching and Learning School Principals Classroom Teachers	Title I IDEA B
The AIMSweb program will be used in elementary and middle schools to monitor progress of students assigned to tiered interventions as part of the Kentucky System of Interventions (KSI), an RTI process.	Teachers can more adequately evaluate student progress on a regular basis (weekly, monthly, and quarterly) to alter instructional interventions as necessary to facilitate individual student academic growth.	AIMSweb reports	2018 – 2019 ongoing	School Principals Curriculum Specialists Classroom Teachers Intervention Teachers Assistant Superintendent of Teaching and Learning	Title I IDEA B
All secondary school staff support students in the creation and continuous update of their Individual Learning Plans (ILP) via www.CareerCruising.com.	Students are more aware of career opportunities, can better plan their high school course content with support from school personnel, and can explore their opportunities for post graduation.	ILP online completion reports	2018 – 2019 ongoing	Secondary school principals and asst. principals, guidance counselors, and student advisors	No district funding

Curriculum and Instructional Integration Goals – Evaluation

The objectives for this section of the technology plan are monitored and evaluated in part through access and review of reports from the following: classroom walkthrough data, AIMSweb, Headsprout, NWEA MAP, Compass Learning, and district STC meeting agendas and minutes. Data reports are shared for analysis, discussion, and appropriate action by the District's Instructional Team and school level administration. If expectations are not met, the persons responsible are contacted and the specifics of items not met are addressed.

Student Technology Literacy Goals

Goal 1

Henderson County Schools will prepare all students to be post-secondary ready and will create future-ready leaders; defining Henderson County as a community with the highest level of integrity and innovation.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
District schools incorporate use of Renaissance Place® web-based program to provide reading and math resources that supplement the regular reading programs.	Students who attend schools using this program will increase their reading and math performance scores.	Renaissance Place usage reports NWEA MAP Student Growth/Progress Reports	2018 – 2019 ongoing	School Principals Curriculum Specialists Classroom Teachers	School Funds
Online delivery of curriculum to students will be increased through the use of GSuite / Google Classroom.	Delivery of instruction will be more efficient and engaging. Student technology skills will improve.	Walkthrough observations Teacher surveys	2018 – 2019 ongoing	Director of Instructional Technology School Principals Classroom Teachers	No specific funding required
Online delivery of curriculum and resources to staff will be increased through use of GSuite and other digital resources.	Planning and delivery of instruction will be more efficient and engaging. Staff technology skills will improve.	Lesson plans as reported to principals	2018 – 2019 ongoing	District Instructional Team Director of Instructional Technology School Principals Classroom Teachers	No specific funding required

The Children's Internet Protection Act (CIPA) requires libraries and schools to install filters on their Internet computers to retain federal funding and discounts for computers and computer access. Our district uses the *Lightspeed Rocket* for internet content filtering.	While in the schools, the Internet content available to students will be academic in nature.	Lightspeed Reports	2018 – 2019 ongoing	Director of Technology	No specific funding required
All faculty, staff and students are required to agree to a Responsible Use Policy. These policies support the safe, professional, and academic usage of email and the internet.	All use of computer programs, email, and Internet will be academic in nature and / or related to school functions.	Digital signatures are recorded in Infinite Campus for each student. Employees receive and agree to the Responsible Use Policy/Access to Electronic Media for Employees annually as part of required employee training.	2018 – 2019 ongoing	Director of Instructional Technology School Principals Human Resource Dept.	No specific funding required
One component of implementation of Technology in Kentucky's Core Academic Standards (KCAS) is "Safety and Ethical/Social Issues." This content will be taught/modeled at	Students will be aware of issues surrounding use of technology. Computer use by students will be safer and focused on academic content.	An analysis of cyber bullying discipline referrals.	2018 – 2019 ongoing	Director of Instructional Technology School STC School Principals Classroom Teachers	General Fund

all grade levels.					
A high school Computer Applications course is required for all students at HCHS prior to graduation.	Students at the high school level will develop technology skills/competencies when using applications and programs associated with the world of work.	Course grades from Computer Applications classes	2018 – 2019 ongoing	High school administrators Computer Applications course instructors	General Fund
High density wireless connectivity is provided and maintained for service to all district locations.	Students have increased opportunity for access to web resources. Student engagement will increase and thus improve student achievement.	Usage reports from Wireless Controllers & Extreme Analytics	2018 – 2019 ongoing	Director of Technology	General Fund

Student Technology Literacy Goals – Evaluation

The objectives for this section of the technology plan are monitored in part through access and review of reports from the following: Lightspeed Reports; reports from IC online registration indicating acceptance of the District Responsible Use Agreement for Technology; 8th grade/middle school technology courses; and Internet safety lesson presentation reports from district teachers.

Data reports from these programs are shared for analysis, discussion, and appropriate action by the District's Instructional Team and school level administration. If expectations are not met, the persons responsible are contacted and the specifics of items not met are addressed.

Staff Training/Professional Development Goals

Goal 1

Henderson County personnel and students will use technology to support learning by gathering information, effectively communicating, and increasing productivity; by understanding safety and ethical/social issues surrounding the use of technology; and by engaging technology for research, inquiry, problem solving, and innovation.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
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.	Teachers' understanding of appropriate technology integration will improve and lessons with integrated use will increase in number. Integrated practices will improve student engagement and achievement.	Classroom Observations will indicate an increase in use of technology.	2018 – 2019 ongoing	Director of Instructional Technology Assistant Superintendent of Teaching and Learning	General Fund Title I Title II
District teachers and administration will work toward completing the skills needed to complete Google Certified Educator Level 1 certification	Teachers and administrators will gain a baseline of knowledge and skills surrounding the google suite of tools available to them for communication and	Increase in the percentage of Level 1 Google Certified Educators in the district	2018 – 2019 ongoing	Director of Instructional Technology Digital Learning Coaches	General Fund

	collaboration				
District technology instructional staff will maintain web resources for use by teachers.	Teachers will spend less time 'hunting' for viable resources and more time integrating.	District Web Resources are readily available.	2018 – 2019 ongoing	Director of Instructional Technology Director of Technology	General Fund
Director of Instructional Technology will maintain communication with Instructional Coaches to assist with integration of technology into curriculum resources	Relevant resources will be readily available for integration.	Curriculum Maps and Units published to shared drives	2018 – 2019 ongoing	School Instructional Coaches Assistant Superintendent of Teaching and Learning Director of Instructional Technology	General Fund
All district teachers will complete a self-reflection of technology use for instruction and student engagement.	Teachers will develop an understanding of the practices necessary to improve their classroom performance and instructional outcomes for students.	Self Reflection & Review with Evaluator	2018 – 2019 ongoing	Director of Instructional Technology School Principals School Technology Coordinators Instructional Coaches	No specific funding required
STCs / Instructional Coaches will be responsible for professional development activities for staff in their respective buildings.	Integrated practices will improve student achievement.	Reported at district STC meetings Reported at Instructional Coach meetings	2018 – 2019 ongoing	Director of Instructional Technology Instructional Coaches School Technology	General Fund

				Coordinators	
STC will attend monthly meetings with district technology staff to share and receive updated information / resources for technology integration in their respective buildings.	STC will expand the list of resources to share with teachers.	District website updated monthly	2018 – 2019 ongoing	Director of Instructional Technology School Technology Coordinators	No specific funding required

Staff Training/Professional Development Goals – Evaluation

The objectives for this section of the technology plan are monitored and evaluated in part through access and review of reports from the following: PD schedules for technology sessions; attendance for PD technology sessions; district STC meeting agendas and minutes; district web resources; the district's technology survey of Teacher Standard Six; and professional development evaluations and analysis forms. Data reports are shared for analysis, discussion, and appropriate action by the District's Instructional Team and school level administration. If expectations are not met, the persons responsible are contacted and the specifics of items not met are addressed.

Technology Goals

Goal 1

Parental and community involvement opportunities will be expanded and created to support the Henderson County Schools learning community. ***Board Goal # 2***

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
ParentLink, a telecommunications system with web-based management, will be supported and used throughout the district by administrators and teachers for more efficient and timely sharing of information.	Parental involvement will increase, and student performance will increase.	ParentLink logs and reports	2016 – 2019 ongoing	Director of Technology Assistant Superintendent of Administration School Principals Classroom Teachers	General Fund
The Infinite Campus parent access portal will be supported so that student grades and attendance information can be checked at home.	Parents will be able to access student grades from home. This will increase parental support for improved student achievement.	Infinite Campus reports	2018 – 2019 ongoing	Assistant Superintendent of Administration Classroom Teachers School Secretaries	KETS
A Twitter account for district news will be used for disseminating district and school related information.	Increase of information to interested parties in the public will increase involvement in	Number of followers on Twitter Increased numbers of community members on sign in	2018 – 2019 ongoing	District Public Information Officer Public Information Team	No funding required

	programs and have a positive impact on culture & programs in the schools.	sheets for district and school events			
Television channel 12 via Insight Cable Television will be used to deliver district news and to highlight district and school programs and achievements.	Increase of information to interested parties in the public will increase involvement in school programs and have a positive impact on culture and programs in the schools.	*No specific indicator can be denoted for this activity.*	2018 – 2019 ongoing	District Public Information Officer	No specific funding required
District marquee and marquees at secondary school locations will be used for delivery of news and announcements.	No specific, immediate instructional outcome is predicted.	*Increased public knowledge of school information and performance can increase public/community support.*	2018 – 2019 ongoing	District Public Information Officer	General Fund
A YouTube channel will be used, updated, and monitored for delivery of information to staff and the public.	No specific, immediate instructional outcome is predicted.	*Increased public knowledge of school information and performance can increase public/community support.*	2018 – 2019 ongoing	District Public Information Officer	No specific funding required

Goal 2

Henderson County Schools will demonstrate fiscal responsibility in all allocation of resources provided by the federal, state, county governments, and by the community to increase student achievement measured by per pupil expenditures.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
The number of classrooms equipped for tech integration to improve instruction will be increased, i.e., Chromebooks, iPads, video projectors, document cameras, interactive whiteboards, interactive slates, etc.	Teachers will have access to technology equipment to integrate use of technology into instruction.	Technology Readiness Survey Report Bright Bytes - Clarity Survey Results	2018 – 2019 ongoing	Director of Technology Director of Instructional Technology School Principals	General Fund KETS
The district's Central Academy (CAS) fulfills the needs of those students who require an alternate method of achieving credits toward a high school diploma. CAS uses OdysseyWare ® for online delivery of course content.	The number of students who fail to graduate from high school will decrease.	High School Graduation Rates High School Dropout Rates/Numbers	2018 – 2019 ongoing	Assistant Superintendent of Teaching and Learning Executive Director of Academic Services and Research CA Principal and Performance Program Head Teacher	General Fund
Data management	Specific data can be	Data report	2018 – 2019	District Assessment	General Fund

software (Infinite Campus) will be supported for compilation of data from state testing, local testing, demographic information and local course grade information.	retrieved and used for design of instructional interventions and improvement / revision of curriculum.	spreadsheets in District and School DATA Notebooks	ongoing	Coordinator Instructional Coaches Director of Technology School Principals	KETS

Technology Goals – Evaluation

The objectives for this section of the technology plan are monitored in part through access and review of reports from the following: OdysseyWare® program; and Infinite Campus. Data reports from these programs are printed, compiled in a District Data Notebook by our Director of Accountability and Assessment, and shared for analysis, discussion, and appropriate action by the District's Instructional Team and school level administration.

Additional evaluative items which are reviewed and considered before action is taken include classroom walkthrough data, high school graduation rates and dropout rates; 8th grade/middle school technology courses; the Technology Readiness Survey; Bright Bytes - Clarity Survey; logs from ParentLink; and content shared via our district's website.

Budget Summary

Note: duplicate this page for each year as needed *(if a multi year plan)*

Acquired Technologies and Professional Development	Ed Tech Competitive Title IID	Ed Tech Formula Title IID	E-Rate	NCLB/other than Title IID	KETS	Other (Specified in next column)	Specific 'Other' Funding source
Staff: salaries, benefits, training	$0	$0	$0	$0	$0	$795,000	*General Fund*
Travel and related costs	$0	$0	$0	$0	$0	$5,000	*General Fund*
Conference registration	$0	$0	$0	$0	$0	$1,000	*General Fund*
Telecommunications	$0	$0	$171,000	$0	$0	$19,000	*General Fund*
Curriculum software	$0	$0	$0	$0	$0	$261,991.21	*General Fund; Title I; IDEA B*
Workstations / Instructional Devices	$0	$0	$0	$0	$150,000	$0	*General Fund*
Multimedia and instructional hardware	$0	$0	$0	$0	$100,000	$25,000	*General Fund; District Facility Plan*
Network hardware and maintenance as well as high density N wireless	$0	$0	$23,843	$0	$0	$49,349.79	*General Fund*
Access Security Control	$0	$0	$0	$0	$0	$15,000	*Safe Schools*
TOTAL	**$0**	**$0**	**$194,843**	**$0**	**$250,000**	**$1,171,341**	

Budget Summary – Narrative

We have strong district and school commitment to our proposed technology program in terms of fiscal, human, time, and other resources. We currently have a Director of Instructional Technology funded out the district's general fund. The district also employs School Technology Coordinators (STCs) and School Technology Assistants (STAs) at each school. The STC is an extra-service position filled with a certified classroom teacher who provides ongoing technology training and support to all building personnel and students. The STC provides support and training during planning times and before/after school. Each STC receives a stipend funded out of local funds. The STA is a full-time classified position that provides support to building personnel and students at the elementary level and also serves as a computer lab attendant. The STA positions at the secondary level are full time positions. The STA salaries are funded out of local funds.

The addition of Digital Learning Coaches to our district remains a high priority in order to support the continued 1:1 implementation throughout the 2018-2019 school year.

The 2018-2019 budgets will tentatively include $1,620,391.59 for technology and communications costs. See the Annual Budget Summary (previous page) for details.