District Technology Plan
Future Ready Plan

Henry County Public Schools

New Castle, Kentucky

http://www.henry.kyschools.us

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Plan Expiration Date: June 30, 2017

Acknowledgments

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Executive Summary

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

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

With this vision in mind, we have chosen to use the Future Ready Schools (http://futurereadyschools.org) framework to help and plan for and implement digital learning in the district. The framework include 7 categories that are instrumental in moving forward with digital learning:

- Curriculum, Instruction, and Assessment
- Use of Space and Time
- Robust Infrastructure
- Data and Privacy
- Community Partnerships
- Personalized Professional Learning
- Budget and Resources

An eighth component encompasses all others: Leadership.

Planning Process and Methodology

District leaders took the Future Ready Initial District Assessment for Digital Learning. Based upon the initial assessment and report, draft goals and action plan items were created using the resources from the Future Ready Planning Dashboard. The plan was then shared with a variety of people from the district for feedback and collaboration on developing a final plan.

Curriculum, Instruction, and Assessment

Vision: It is the district's vision that digital learning be interwoven seamlessly throughout curriculum, instruction, and assessment.

Goal 1

By the end of the 2016-2017 school year, establish uniform K-12 curricula across all content areas that incorporate 21st Century Skills, personalized learning and digital learning.

Plan of Action

Action	Person(s) Responsible	Timeline	Anticipated Budget / Funding Source	Resources / Notes	Status
1.1 Establish content area/grade level groups to formalize curriculum maps.					
1.2 Produce curriculum maps for each content area and grade level.					
1.3 Post curriculum maps on district's web site and/or SharePoint site.					
1.4 Develop an online collection of resources related to 21st Century skills, personalized learning, digital learning and other strategies.					
1.5 Develop unit outlines that identify 21st Century skills, digital learning methods and personalized learning strategies.					
1.6 Provide teachers with professional learning opportunities on the available technology tools to enhance learning.					
1.7 Implement Objective 1.7 in the district's strategic plan, providing a 1:1 learning environment for all students.					

Status: NS – not started, IP – in progress, C – completed

Use of Space and Time

Vision: The district is committed to supporting anytime anywhere learning and recognizes the role technology plays in making this possible.

Goal 2

By the end of the 2016-2017 school year, all schools will adopt and/or increase alternative uses of instructional time to meet the needs of all learners.

Plan of Action

Action	Person(s) Responsible	Timeline	Anticipated Budget / Funding Source	Resources / Notes	Status
2.1 Identify successful practices in the blended learning model from the high school and self-paced learning from the middle school to replicate in other courses at both schools.					
2.2 Develop a common vision and expectations for 24/7 access to learning. Identify roadblocks and strategies for successful implementation.					
2.3 Investigate additional opportunities for competency-based learning, e.g. offering online courses for credit that can be taken at any time.					

Status: NS – not started, IP – in progress, C – completed

Robust Infrastructure

Vision: While networks and hardware are in place to support digital learning, the district is exploring what device(s) are needed to best meet student need.

Goal 3

By the end of the 2016-2017 school year, all schools and district will embed technology needs in their improvement plans (e.g. professional learning necessary for teachers to adapt to new technologies, replacement plans for instructional devices, etc.).

Plan of Action

Action	Person(s) Responsible	Timeline	Anticipated Budget / Funding Source	Resources / Notes	Status
3.1 Perform a need assessment of current inventory and uses of technology at each school.					
3.2 Identify areas in school improvement plans in which goals can be accomplished with the support of technology.					
3.3 Develop a Device Evaluation Instrument that schools can use to determine the most appropriate devices for a particular learning outcome.					
3.4 Continue to secure fiber services to provide high-speed data connection between school buildings.					

Status: NS – not started, IP – in progress, C – completed

Data and Privacy

Vision: The district understands and values the importance of data based decision making but recognizes growth needs to occur in better understanding data and its security.

Goal 4

By the end of the 2016-2017 school year, the district will clearly document the roles and responsibilities for data, data systems, data security, data privacy, data storage, data stewardship, and for the responsible and effective uses of data in the school district.

Plan of Action

Action	Person(s) Responsible	Timeline	Anticipated Budget / Funding Source	Resources / Notes	Status
4.1 Document all data systems in use by schools and the district.					
4.2 Identify data stewards for each system.					
4.3 Incorporate data security and privacy training in district confidentiality training.					
4.4 Document procedures for providing/revoking data access upon beginning/end of employment.					
4.5 Identify all data systems that may be in use by teachers and schools. Ensure they comply with HB 5.					

Status: NS – not started, IP – in progress, C – completed

Community Partnerships

Vision: The district is interest in using digital platforms to expand our students', teachers', and community's connection to the broader world.

Goal 5

By the end of the 2016-2017 school year, all students will have used available digital tools to connect to and collaborate with the larger community.

Plan of Action

Action	Person(s) Responsible	Timeline	Anticipated Budget / Funding Source	Resources / Notes	Status

5.1 Provide Digital Citizenship instruction to all students K-12.					
5.2 Provide teachers with ideas for using digital tools to collaborate with others. (Can be part of the online resources mentioned in Curriculum, Instruction, and Assessment.)					
5.3 Research available ecosystems for online collaboration (Office 365 vs. Google). Advise schools on features available in each.					

Status: NS – not started, IP – in progress, C – completed

Personalized Professional Learning

Vision: The district is personalizing professional learning by using digital media as appropriate.

Goal 6

By the end of the 2015-2016 school year, the district will have established a comprehensive framework for alternative professional learning incorporating the use of digital media where appropriate (e.g. professional learning academies through SharePoint, Skype for Business sessions, EdCamp opportunities, etc.)

Plan of Action

Action	Person(s) Responsible	Timeline	Anticipated Budget / Funding Source	Resources / Notes	Status
6.1 Build collaborative online learning spaces focused on specific instructional strategies.					
6.2 Identify and document district experts in various areas and make list available to teachers.					

Status: NS – not started, IP – in progress, C – completed

Budget and Resources

Vision: It is imperative that the district efficiently use available funding and leverage outside funding sources to provide the best possible digital learning for its students.

Goal 7

By the end of the 2016-2017 school year, the district will identify metrics that can be used to determine Learning Return on Investment specific to digital learning and 21st Century skill development.

Plan of Action

Action	Person(s) Responsible	Timeline	Anticipated Budget / Funding Source	Resources / Notes	Status
7.1 Research L-ROI case studies and sample metrics.					
7.2 Discuss L-ROI with area districts and how the use metrics in improvement planning and budget review.					
7.3 Develop a plan for utilizing L-ROI metrics.					

Status: NS – not started, IP – in progress, C – completed

Empowered, Innovative Leadership

Vision: District leadership is actively involved in exploring innovative strategies to better prepare our students for the world they will encounter.

Goal 8

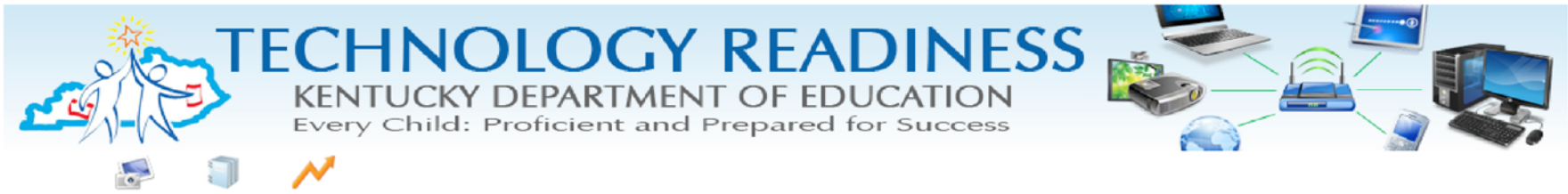
By the end of the 2016-2017 school year, the district will define a vision of distributed, collaborative leadership among all education professionals.

Plan of Action

Action	Person(s) Responsible	Timeline	Anticipated Budget / Funding Source	Resources / Notes	Status
8.1 Continue participation in Communities of Practice. Post members of each community online.					
8.2 Identify and document district experts in various areas and make list available to teachers.					

Status: NS – not started, IP – in progress, C – completed

Appendix A – 2013-2014 Technology Readiness Report



2013-2014 Technology Tools Readiness Survey Results

The information collected will be used by local school districts, local Boards of Education, Legislators, and the Kentucky Board of Education to determine the needs for:
(1) implementing the KETS Master Plan for Technology initiatives,
(2) technology funding,
(3) on-line applications and
(4) on-line testing.

SCHOOL DISTRICT	Henry County
AVERAGE DAILY ATTENDANCE	2,011.7
NUMBER OF SCHOOLS	5
NUMBER OF CLASSROOMS	111
NUMBER OF CLASSROOM TEACHERS	129

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Section 1: Instructional Devices and Ease of Access	Henry County
Student Devices in Elementary Schools (P - Grade 5)	**Total**
Total Number of Instructional Devices for STUDENT Access (this includes ALL devices and access "seats")	551
Student Devices in Secondary Schools (Grade 6 - Grade 12)	**Total**
Total Number of Instructional Devices for STUDENT Access (this includes ALL devices and access "seats")	685
Staff Devices in ALL Locations (Classroom Teachers, Administrators, & Other personnel, and District Offices)	**Total**
Total Number of Instructional STAFF Devices District Wide	269

Total number Instructional Devices	Total	PCT (%)	Ratio to 1
Student Devices	1,236	82.1%	1.63
Staff Devices	269	17.9%	
TOTAL	**1,505**	**100.0%**	

Personally Owned Devices (BYOD - Bring your own device) :	Yes	No
1. Has the district permitted (by way of policy) personally owned Devices to be brought to school by students?	✓	
2. Has the district permitted (by way of policy) personally owned devices to be brought to school by staff (adults)?	✓	

1:1 Implementations	Yes	No
1. Has the district purchased devices for a 1:1 implementation?		✓
2. If yes, what is the scope of the implementation? (e.g. district wide, school wide, grade level, program based, etc)	Total	
District Wide	0	
School Wide	0	
Grade Level	0	
Program Based	0	

Home Access*	Yes	No
1. Do you have a meaningful or intentional way to collect student home access information? (e.g. asked on enrollment form or other survey)	✓	
2. If yes, what percent of students have Internet access at home capable of having a good experience watching a YouTube video?	68.0%	
3. If no, what is your best effort estimation, on what percent of students have Internet access at home capable of having a good experience watching a YouTube video?	%	

** Home Access aggregate percentage calculation is weighted based on each district's ADA.*

Annual Purchases and Surplus	Total
1. How many total Instructional Devices within the district were purchased/acquired new, from all funding sources, during this annual reporting cycle (7/1 - 6/30)?	343
2. How many total Instructional Devices within the district were surplused during this annual reporting cycle (7/1 - 6/30)?	188

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Section 2: Instructional Device Operating Systems (OS) :	Henry County
How many of the total Instructional Devices use the following OS?	Total
Windows - Pre Windows 7	0 (0.0%)
Windows 7	889 (59.1%)
Windows 8	325 (21.6%)
Windows 8 RT	57 (3.8%)
Mac OS X Pre 10.4	0 (0.0%)
Mac OS X 10.4 (Up to 10.8)	4 (0.3%)
Mac OS X 10.9 (or later)	5 (0.3%)
Chrome OS (Chromebook OS)	99 (6.6%)
iOS 6.x and older	49 (3.3%)
iOS 7.x and newer	77 (5.1%)
Android 4.0 (ice cream sandwich) and older	0 (0.0%)
Android 4.1 (Jellybean) and newer	0 (0.0%)
Other Android base OS (i.e. Kindle, etc.)	0 (0.0%)

Other Desktop OS (e.g. Linux)	0 (0.0%)
OS (Section 2) Calculated TOTAL	**1,505**
How many of your total student devices are able to be used for state required assessment?	131 (8.7%)

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Section 3: Technology Leadership, Service, Support, and Training Resources	**Henry County**	
1. Total number of days the Ed Tech Leader position is employed during the FY13 school year	232	
2. How does the Ed Tech Leader spend most of their day? (select one that best describes):		
A. Primarily focuses on day to day operations with majority of time devoted to hands on repair, troubleshooting, or solving help desk requests.		
B. Primarily focuses on ensuring the availability of critical technology services. Includes the management of staff as well as managing or brokering services as defined by other leaders.		
C. Primarily focuses on understanding the educational needs and challenges of the district. Influences district level budget conversations. As well as leading efforts to plan, research, procure state and federal program funding, leads and establishes overall direction and vision of using technology for efficiencies and instruction/learning.	✓	
	Yes	**No**
3. Does the Ed Tech Leader report directly to the superintendent?	✓	
4. Does the Ed Tech Leader have district wide technology budgetary control and influences over other budgets?	✓	
5. Does the school district have someone tasked with being overall in charge of Data Quality (one person that is generally responsible for data in all data systems)?	✓	
6. Has the school district implemented "Data Stewards" for valuable data elements in your district?	✓	
7. What percent of of the Ed Tech Leaders time is spent on activities outside of those that are technology related?	10.0%	
Technology Integration Specialists / Technology Resource Teachers (TIS / TRT) :	**Total**	
Number of FTE (Full Time Equivalent) TIS/TRT positions in the district?	0.0	
School Technology Coordinator (STC) :	**Total**	
Number of schools with an STC?	5	
	Yes	**No**
Are STC positions paid a stipend?	✓	
	Amount	
If yes, what is the annual average stipend?	1,093.0	
Technicians:	**Total**	

Number of FTE in-house district/school technicians that focus on daily operations and maintenance?	2.0	
Number of FTE outsourced district/school technicians that focus on daily operations and maintenance?	0.0	
Student Technology Leadership Program (STLP) :	**Yes**	**No**
Do you have students (ex: STLP, interns) assisting with technology leadership, services, support and training?		✓
	Total	
Number of schools with active STLP?	5	
Which best describes your STLP? (check only one)	✓	
An after school program or club		
Integrated into content/classroom		
Both afterschool and integrated	✓	
Digital Citizenship	**Yes**	**No**
Is there a purposeful implementation of student learning of the 9 elements of Digital Citizenship (via Professional learning/ PD, Digital Driver's License, Common Sense Media resources, etc.)	✓	
Select the elements of Digital Citizenship being implemented with students:		
Digital Access	✓	
Digital Commerce	✓	
Digital Communication	✓	
Digital Literacy	✓	
Digital Etiquette	✓	
Digital Law	✓	
Digital Rights & Responsibilities	✓	
Digital Health & Wellness	✓	
Digital Security	✓	
Is there a purposeful implementation of teacher/adult learning of the 9 elements of Digital Citizenship (via Professional learning/ PD, Digital Driver's License, Common Sense Media resources, etc.)		✓
	Yes	**No**
Do you have a district wide or school-wide approach to the Learning Management System (LMS)?		✓
If yes, what are you currently using? (Check all that apply)	✓	
Moodle		
Edmodo		

Blackboard	
Canvas	
Converge	
Schoology	
Desire2Learn	
Infinite Campus	
The Holler	
Other	
If Other, please share	

	Yes	No
Do your schools offer on-line or blended courses for student credit?	✓	
Is Credit given based on seat time, performance or both?	✓	
Seat Time		
Performance		
Both	✓	

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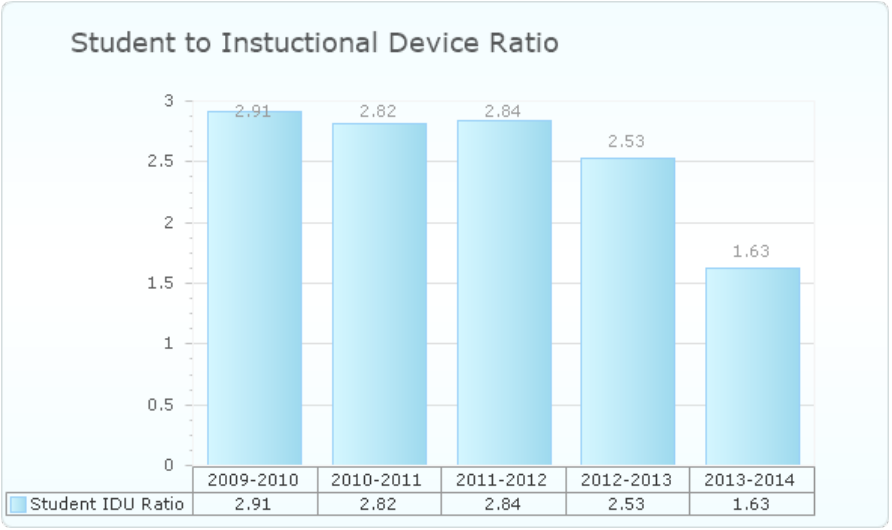
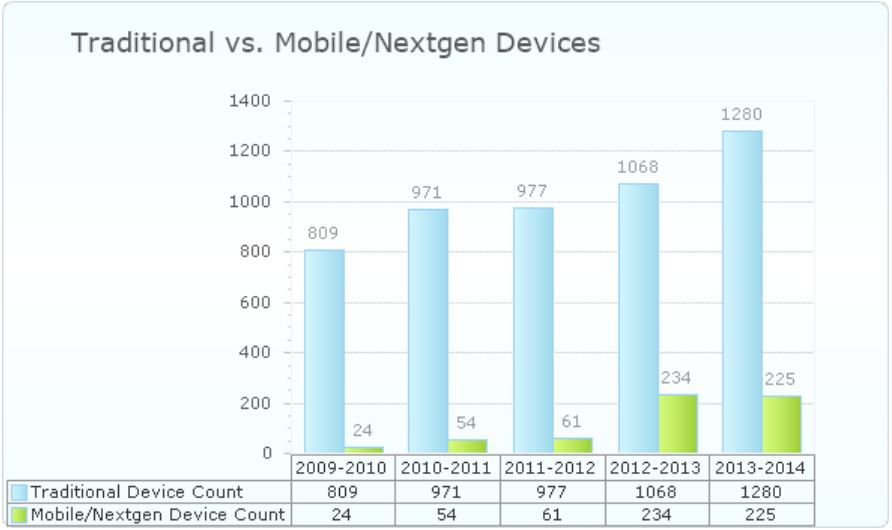
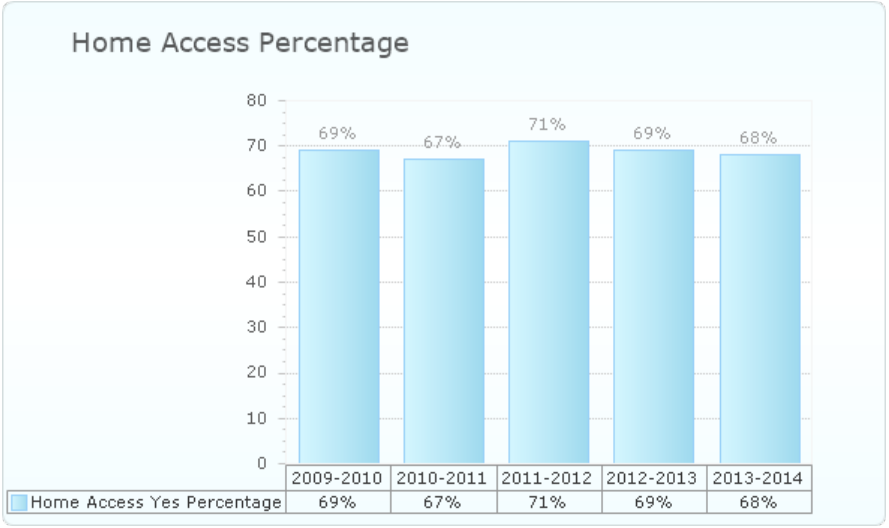
Section 4: Network Connectivity	**Henry County**		
School Wide Area Network (WAN) Connection to District Hub Site	**# Schools**	**% of Schools**	**# Other buildings (Not Schools)**
1. Number of schools connected to WAN via the following connection speed (please use advertised download speed coming into building, not actual speed in classroom or work area)			
Up to or less than 10 Mbps	0	0%	0
Up to or less than 100 Mbps	0	0%	0
Up to or less than 1 Gbps	4	80%	4
Greater than a 1 Gbps	0	0%	0
Located at the KEN Hub Site	1	20%	0
TOTAL	**5**	**100%**	
2. Number of schools that already have wireless able to generally support BYOD or 1:1 (dense wireless, ready for every student to connect 1 or 2 devices and have a good experience)	5	100%	4
3. Number of schools that DO NOT have wireless able to generally support BYOD or 1:1 (dense wireless, ready for every student to connect 1 or 2 devices and have a good experience)	0	0%	0
TOTAL	**5**	**100%**	**8**

Appendix B – Instructional Device and Home Access Trends







Appendix C – Annual Technology Spending Trends