

**Technology Plan
Carroll County School District
Carrollton, Kentucky**



<http://www.carroll.kyschools.us>

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Draft

Acknowledgments

District Technology Staff

Cindy Johann, DTC
Zachary Dean, Network Administrator
Joe Bliton, Device Manager
Andrew Johnson, Computer Maintenance technician

School Library Media Specialists

Allison Burgess, Winn Primary
Linda Ogburn, Carroll County Middle School
Lisa Weedman, Carroll County High School
Barbara Catt, Cartmell Elementary

Additional District Contributors

Bill Hogan, Superintendent
Will Yager, Problem Based Learning MS teacher
Jamie Wilson, Assistant Principal at Winn

School Technology Coordinators

Jessica Breeden, Cartmell Elementary
Brenda Cole, Carroll County Middle School
Lynn Eaglin, Carroll County High School

Students

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Executive Summary

Carroll County started a 1-to-1 initiative 5 years ago with 11th and 12th graders. Two years ago we spread that to all high school students. With some progress toward using technology in both students and teachers, it is not the digital conversion we were hoping for. This year, we are exploring the 21st century roadmap and Future Ready schools in order to develop a better plan.

For 2 years in a row, Carroll County schools took an assessment of technology through Clarity Bright Bytes. This assessment will guide us through our digital conversion.

There are 4 main areas in which students and teachers are surveyed. The key findings are:

1. **Access:** The access at school is wonderful and the access at home is almost as good.
2. **Skills:** Teachers are confident in their foundational online skills. Students are confident in their foundational, multimedia skills but elementary students need more practice with reading online content, chatting on the Internet with their teacher, and using online documents.
3. **Classroom:** This is our biggest area of concern. Inside the classroom, neither teachers nor students are using Communication, Collaboration, Critical Thinking, and Creativity, which are essential for developing the knowledge and skills needed for college and career readiness. Both teachers and students need more exposure to Digital Citizenship.
 - 46% of the teachers never ask students to receive feedback from others in the classroom.
 - 88% never ask students to get feedback online from someone other than them.
 - 60 % of the teachers never ask student to use web tools to receive online information.
 - 66% of the teachers never ask students to write online.
4. **Environment:** Teachers do not discuss technology in team meetings and they feel they do not get the support for instructional technology planning. Students do not provide technology support at school.

The mission of Carroll County Schools is to enable students to become critical thinkers and passionate leaders who embody pride in their school and community

The goals of the technology committee to enable that mission by creating responsible, ethical digital citizens, both teachers and students and producing students that can compete on a global level

Planning Process and Methodology

- Committees were formed for the district strategic plan
- Volunteers were placed according to interest
- Throughout winter and fall, committees met as a whole group and then would be broken out.
- Soon, we met in our individual groups
- Plans were shared with the superintendent.
- Strategic plans from this committee were transferred to the technology committee and other members from the district were asked to review and make suggestions.

Current Technology and Resources

- 1) Technologies already in place:
 - VOIP phones in every classroom throughout the district
 - Wireless access points, SMART Boards, and projectors in every classroom throughout the district
 - Video Conferencing Equipment in each building –
 - Fiber connecting each building 1 GB
 - All schools wired with CAT 6 cable.
 - IP Security Camera System – All schools are upgraded.
 - C5 switches cover the district.
 - Software: Compass (Winn, Cartmell, CCMS), READ 180 (CCMS, CCHS), Schoolpointe (District web publishing) –E2020(Edgenuity- Cartmell, CCMS, ALC and CCHS, Renaissance Place (Winn, Cartmell, CCMS) MasteryConnect (Winn, Cartmell, CCMS, and CCHS) The district pays support for each of the software to keep them current.
- 2) The accessibility of technology.
 - The high school has a laptop for every student. There are computers located in the library and 1 other stationary lab. We have 2 STEM classrooms with labs located in their area..
 - The middle school has 2 labs and 1 Project Based Learning lab. Media Center has a lab of different type of devices. All grades have access to iPads and older Macbooks. They have plenty of computers, just ones that are older. In need of updated devices.
 - The Alternative Learning Center has adequate computers for their needs. All curriculum is online and they have 1 computer per student.
 - Cartmell Elementary has 4-6 computers per classroom, 1 stationary labs of 4 years and a mobile lab for testing of older macs. Media Center has very old computers that need to be replaced. All grades have access to iPads
 - Winn Primary has 6 virtual (N-Computing) stations in each classroom. They have a computer lab of 30 virtual stations and the media center has 30 stations. They have some laptops scattered throughout the classrooms. All grades have 5 iPads.
- 3) Each school has a School Technology Coordinator and a Library Media Specialist

Curriculum and Instructional Integration Goals

Goal 1

To produce students that can compete on a global level.

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Develop a Roadmap for the digital transformation of CCHS and CCMS Teachers and administrators - Review policies, develop learning principals, review effective assessments and research case studies)	As teachers grow into facilitators allowing students to create, collaborate, and critically think, students will develop disposition to learn, create and do.	A plan in place on the CCHS website and a digital document that teachers will reflect their practice.	July 2016-June 2019	Principal, Instructional Coach, LMS, DTC	General Funds

Goal 2

By the end of 2017-18, the use of the 4 C's (Communication, Collaboration, Critical Thinking, and Creativity) the Clarity Bright Bytes survey will show an increase in the classroom for both students and teachers.

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Students using 21 st Century Fluencies through PBL and Flipped Classrooms	Use of the 4 C's	Bright Bytes Survey	Bright Byte Survey Results at the end of each spring - 2017 and 2019	Administrators/Instructional Coach	
Students use Blending Learning and Global Learning experiences	Use of the 4 C's	Bright Bytes Survey	Bright Byte Survey Results at the end of each spring - 2016 and 2019	Administrators/Instructional Coach	

Students using PBL to solve problems	Use of the 4 C's	Bright Bytes Survey	Bright Byte Survey Results at the end of each spring – 2017 and 2019	Administrators/Instructional Coach	
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Curriculum and Instructional Integration Goals – Evaluation

1. DTC will monitor the roadmap and the digital document and record progress each month. Discussion will be held with teams of teachers at the middle and high school. Emphasis on high school at first because they are already one-to-one. Middle School will have the same procedure but will start a little later in the fall to develop for the next year.

Student Technology Literacy Goals

Goal 1

Students will be responsible, ethical digital citizens.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Students will be trained on Ethical and responsible use During Announcements at each building, case studies or snip-its will be heard each week	Provide students with knowledge to make positive choices, interact in a safer online environment, have a positive online presence	Bright Bytes score will go from emerging to proficient	July 2017-June 2019	Library Media Specialist in each school	Local

- 1) Clarity Bright Bytes score should reflect the improved knowledge that students feel about their own knowledge of digital citizenship.

Staff Training/Professional Development Goals.

Goal 1

Provide teachers and administrators opportunities to enhance their learning.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Send teachers and administrators to state and national conferences to improve integration of technology in the classroom. KYSTE, ISTE, NSBA, CoSN	Students will experience more technology integration to become more engaged in learning in their natural environment.	Carroll County Website Resource Page – Attendees will share how they use their training in their classroom and how they will share with other teachers.	July 17-19	Superintendent, Assistant Superintendent, and DTC	Local technology Funds
DTC will provide technology training within the district 30 minute sessions during faculty meetings	Students will experience more technology integration to become more engaged in learning in their natural environment.	List of trainings and handouts with links to appropriate websites, videos, and Powerpoints and a survey of how they will use the training in their classroom.	July 17-19	Library Media Specialists and DTC	Local/KETS

Staff Training/Professional Development Goals – Evaluation

- 1) Training will focus on enhancing teachers' knowledge and implementation of 21st century skills and college/career readiness.
- 2) Training will only be offered to match the curriculum goals for the district – helping students become college and career ready.
- 3) Technical staff will be trained at the KYSTE conference technical sessions and the Monthly DTC meetings as opportunity arises.
- 4) Teachers will fill out a survey about the PD activities and if the activities will be effective in promoting integration of technology into the curricula and instruction, enhancing the ability of teachers to teach, and enabling students to meet challenging state academic standards.

Our Clarity Bright Bytes survey gave 2 high priority initiatives according to the teacher surveys:

1. Teacher Use of the 4C's
2. Teacher Professional Learning

The survey also gave Medium Priority objectives to work on:

1. Teacher Multimedia Skills
2. Policies, Practices and Procedures that support innovative technology
3. Teacher Online Skills

Measures: Clarity Bright Bytes data will show improvement from Fall to Spring.

Always included in PD:

Examples of classrooms using the tools presented.

Management of process.

Resources for teachers to explore on their own.

Technology Goals

As we continue to get more and more devices in the district, we need ease of access by students and staff. The upcoming year, we will focus on an appliance that will streamline the log on system and new AP's across the district. Maintenance of the hardware will continue each year. Telecommunications will be a yearly expense. Webhosting meets all of our requirements for communication to the public/parents, students, etc and a great storage area for documents, videos, and pictures.

Goal 1

To maintain and add additional hardware to keep a functioning network for wired devices, wireless devices and telecommunications.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Switches/Access Points (End of life switches) Additional AP's	Students will be able to complete task on devices.	Working wireless devices	July 17-18	DTC	\$117,361.75/\$20,710.90 Erate/General Tech Fund
Extreme Maintenance	Students will be able to complete task on devices.	Network Uptime	July 2017-July 2018	DTC	\$3,843.19/\$9,447.15 Erate/General Tech Fund
Fiber Agreement	Students will be able to complete task on devices.	Network Uptime	July 2017-18	DTC	\$62,314.00/\$6,261.42 Erate/General Tech Fund
Telecommunications	Students will be safe in their environment.	Available communication within and outside the district.	July 2017-18	DTC	\$3,474.32/\$8,106.76 Erate/General Tech Fund

Goal 2

To provide students and teachers with adequate access to working technology in the classroom

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Replace 5 projectors per year to each school	Teachers will be able to utilize devices to display	Working projectors	July 2017-2018	DTC	\$11,000.00 General Technology Funds

Goal 3

To maintain network, instructional and administrative software.

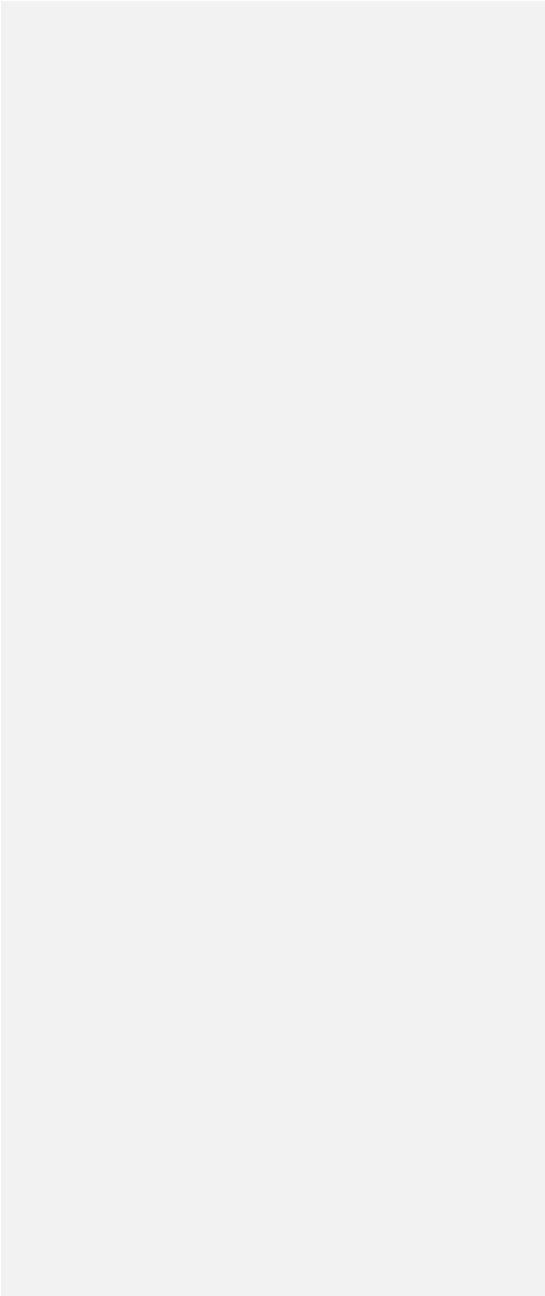
Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
PDQ Deploy	Student devices have necessary updates to function properly	Up-to-date software	July 17-18	Network Admin	\$1,000.00 General Tech Fund
Airwatch	Students have apps in a timely manner on all iPads.	Applications for instruction on all devices	July 2017-July 2018	Device Manager	\$8,199.00 General Tech Fund
Lanschool	Teachers view student used devices and students present work.	Network Uptime	July 2017-18	Network Admin	\$995.00 General Tech Fund
Survey Monkey	Student voice.	Surveys	July 2017-18	DTC	\$204.00 General Tech Fund
Webhosting	Students will have access to district resources needed for instruction.	Website	July 2017-18	DTC	\$4000.00

Microsoft Agreement	Students have needed software for instruction	Software on all devices	July 2017-18	Network Admin	\$12,961.92
BrainPop	Students have access to videos to help develop science concepts	Access to site	July 2017-18	DTC	\$3,717.90
Soundzabound Music	Student have access to royalty free music for projects	Access to site	July 2017-18	DTC	\$396.00
FileMaker Pro	Students have all assessments in database	Access to site	July 2017-18	DAC	\$2,009.00
Total Budget					\$89009.05

Technology Goals – Evaluation

- 1) Our BrightByte scores will continue to be advanced or Exemplary



Budget Summary 2016-2017

Acquired Technologies and Professional Development	E-Rate	KETS	Other (Specify) General Tech Fund
Bell South Telco	\$6,000		\$6,000.00
Insight Fiber	\$11,344.97		\$1,260.55
Professional Development -	\$0.00		\$20,000.00
Salaries and Fringes - (includes STCs STLPs)	\$0.00		\$231,727.00
Hosted Web Services			\$4,000.00
Basic Maintenance of Internal Connections Extreme	\$5,452.88		\$3808.27
Software/Maintenance/Licenses/Support/Apps	\$0.00		\$32,500.00
Hardware – Switches and AP's	\$64,767.28		\$11,429.52
Infrastructure/Hardware - Devices	\$0.00	\$45,000.00	\$90,382.62
STLP			\$10,000.00
Student Co-op			\$4000.00
TOTAL	\$87,565.13	\$45,000.00	\$415,107.96

Commented [JCL-CDTC1]: CoSN
ISTE
KySTE

Commented [JCL-CDTC2]: Airwatch
Read 180
Microsoft
Lanschool
Brainpop
Survey Monkey
PDQ Deploy
LanSweeper

Commented [JCL-CDTC3]: NAC is 18,000.00

Budget Summary – Narrative

This budget includes the technology general fund, KETS and Erate. It covers mainly technology PD, Teachers, administrators, student labs and replacements, instructional and monitoring software, and infrastructure. Carroll County supports the use of technology and determines each year how much they can add to the technology initiative that does not come out of this budget.

Attachments/Appendices (Optional)