

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



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

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Executive Summary

The goal of the district is to make all students of Carroll County College and career ready. Students must have opportunities to create, collaborate, investigate and present their projects to an authentic audience. The only way to accomplish this goal for all students is to have a stable infrastructure and a device for each and every student to use as needed. The district plan is to seek out funding to get as close to a one to one device for students of all grade levels. Continuous professional development and support is needed to help teachers use the devices to engage and teach core curriculum.

Increased student achievement is expected, as students are able to create, collaborate and investigate their interests.

Teachers will find new ways of engaging students with the integration of technology and the devices.

Through the web hosting, communication increase between the district and parent and the larger community.

Planning Process and Methodology

In the fall of the 2011, each school was expected to create a school technology plan with a budget. Each school created a vision with goals for their school. The plans were given to the Assistant Superintendent who is in charge of curriculum and the District Technology Coordinator. The plans were reviewed with suggestions from both the DTC and the Assistant Superintendent and approved and consolidated with the district network goals. As the draft for the district was completed, a copy was sent to each school technology committee to review and provide input. A meeting was held to finalize the district plan with the district committee. When the draft was reviewed and accepted by all, it went to the school board for approval.

- 1) All goals from last year's plan were met but some activities were not completed as stated. Video conferencing with an emphasis on STEM was an activity not initiated the first half of the year. We now have a new STEM initiative – in the plan.
- 2) All goals need more time to fully develop throughout the district.
- 3) All goals are still relevant.
- 4) Going through last year's plan, it was determined a need to have a specific place to record all plans and work available at anytime, anywhere for all stakeholders. School Pointe was purchased as a web hosting site and it houses all lesson plans, types of assessments, vocabulary, student work, etc. All teachers contribute and all administrators analyze the data put on the site.

Current Technology and Resources

- 1) Technologies already in place and the condition:
 - VOIP phones in every classroom throughout the district
 - VBrick used as cable in every classroom throughout the district
 - Wireless access points, SMART Boards, and projectors in every classroom throughout the district – Wireless is new, SMART Boards and projectors are starting to need to be replaced.
 - Video Conferencing Equipment in each building – new and will be ordering more with RUS Grant
 - 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 and MAP (all schools), READ 180 (CCMS, CCHS, ALC), Dreambox (Winn & Cartmell), Earobics (Winn), Rosetta Stone(Cartmell, CCMS), Schoolpointe (District web publishing) –E2020(Edgenuity) The district pays support for each of the software to keep them current.
- 2) The Accessibility of technology for learners is lacking in some schools with certain subjects.
 - The high school has a computer for every student. All juniors and seniors have laptops. There are computers located in the library and 3 other stationary labs. They have 30 Dell laptops that the math department uses.
 - The middle school has 3 labs. All grades need more access to computers.
 - The Alternative Learning Center has adequate computers for their needs. All curriculum is online and they have 1 computer per student. They do have some older computers that need to be replaced.
 - Cartmell Elementary has 4-6 computers per classroom, 2 stationary labs and a mobile lab teachers can check out. They have a few older computers that need to be replaced.
 - 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.
- 3) Each school has a Champion Technology Teacher, a School Technology Coordinator, and a Library Media Specialist that help integrate technology. On top of these positions, Winn Elementary has a full time STEM teacher and Cartmell Elementary has a full time STEM teacher. CCHS has a vanguard staff that have special training in Apple software and hardware. All of the above staff is sent to extra training for train the trainer model. They each help within their school and give staff training.

Curriculum and Instructional Integration Goals

Goal 1

To design and develop digital-age 21st century learning experiences and assessments to increase student engagement and achievement

Action Plan: Projects/Activities

Project/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Video Conferencing	Eliminate barriers and enables connection with experts in other geographical locations.	Checkout sheet of Conference equipment. Student comments of knowledge gathered through conference on website.	July 2012-June 2015	Principals, Teachers and Library Media Specialists	General Funds
Blogging (Schoolpointe) Edmodo	Provide alternative way of acquiring/sharing information Anytime Instruction	Blog Sites	July 2012-June 2015	Principals, Teachers and Champion Technology Teachers	Erate/Technology General Fund

Goal 2

To master essential reading and math concepts through one-to-one individualized instruction (Computer software)

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Compass Learning (Winn and Cartmell)	Improve student learning in Math and reading	Reports from Compass	July 2012 - June 2015	Teachers	General Technology Funds \$8000.00
DreamBox Learning	Improve student learning in Math	DreamBox Reports	July 2013- June 2015	Teachers	District General funds
Read 180	Improve student learning in Math and Reading	SRI Gains	July 2012 - June 2015	Teachers	Read 180 - \$5900.00 District General Funds(Hogan)

Carnegie Learning	Improve student learning in Math and Reading	Units Completed in Carnegie	June 2012 - 2015	Teachers	Carnegie \$15,000.00 Tech Funds/District
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Goal 3

To increase all student's technological literacy and to increase, by 10%, the number of students who pursue engineering or engineering technology degrees

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Winn Primary and Cartmell Elem. will purchase Engineering kits to apply design principles that solves engineering and technological problems	Promotes deeper understanding of science, technology, engineering and mathematics (STEM) and engages students in solving complex problems.	STEM Fair in Spring	July 2012- June 2015	Lynn Stucker and Gail Becraft STEM teacher at Cartmell	Grant/General Fund \$8,915.00 Total for both Winn and Cartmell
CCMS will participate in Gateway to Technology (PLTW) to apply design principles that solves engineering and technological problems	Promotes deeper understanding of science, technology, engineering and mathematics (STEM) and engages students in solving complex problems.	State assessment, End of course assessments, course surveys and final interviews STEM Fair in Spring	July 2012- June 2017 – It is a 5 year plan	Principal, STEM Teacher	Grant/General Fund \$17,270.00
CCHS will participate in Pathway to Engineering Courses (PLTW) to apply design principles that solves engineering and technological problems	Promotes deeper understanding of science, technology, engineering and mathematics (STEM) and engages students in solving complex problems.	State assessment, End of course assessments, course surveys and final interviews STEM Fair in Spring	July 2012- June 2017 – It is a 5 year plan	Principal, STEM Teacher	Grant/General Fund \$114,315.00

Curriculum and Instructional Integration Goals – Evaluation

1. Teachers have been given work hours to plan as a team to develop rigorous curricula and record their plans. The development and utilization of innovative strategies are located on the Carroll County Website under the quick link curriculum – core curriculum. Required headings are: Essential Questions, Overview, Standard/Targets, Assessments, Vocabulary, Resources/Supplemental Materials, Strategies (Literacy, 21st Century Projects, Marzano), and Differentiation (Enrichment/Intervention). The process was started in the summer of 2011 and will continue as plans develop.
2. All plans are aligned with Kentucky Core Academic Standards and developed for students of Carroll County to be college and career ready.
3. Through Walkthroughs and recorded documentation in Carroll County's Program Review website, principals, instructional coaches and Chief Academic Officer will evaluate and meet in teams to analyze instructional practices, aligned curriculum, student work samples, formative and summative assessments, PD and support services to improve the quality of teaching and learning.
4. Chief Academic Officer, principal and instructional coaches meet with teams of teachers and review progress. If progress is not met, professional development or a plan to reach success will be implemented.

Student Technology Literacy Goals

Goal 1

Students will use technology for original creation and innovation and to solve real world problems.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Students will participate in STLP and Robotics programs	Provide students with the opportunity to work in groups to solve real world problems	Projects – Participate in STLP Regional and State competition and RCX/First Robotics competitions	June 2012-May 2015	STLP coaches, Robotics coaches	Local

Goal 2

Students will understand social, ethical, and environmental impacts associated with the use of technology.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Each school will deliver and incorporate grade appropriate online safety/digital citizenship lessons throughout the year (Helps with CIPA compliance)	Students will understand and practice safe and ethical uses of technology	Lesson Plans/Activities/Digital Driver's License	August 2012-May 2015	Library Media Specialist, Champion Technology Teachers, STC's at each school.	Local

Goal 3

Students use technology to learn, communicate, increase productivity and become competent users. Students create effective oral, written and multimedia communication in a variety of forms and contexts.

Action Plan: Strategies/Activities

Strategy/Activity	Instructional Outcome	Indicator	Timeline	Person(s) Responsible	Funding Source
Students will create at least one STEM multimedia presentation per semester.	Students will learn to work in groups, and to communicate in a variety of forms.	Documentation to Champion Technology Teachers. CTT's will compile records	July 2012-2015	Teachers, Champion Technology Teachers, Principals and DTC	Local/Kets
Students in 2 nd grade will receive keyboarding lessons to increase productivity.	Students will have the ability to efficiently create written and multimedia communication	Keyboard certificate for each second grade student	July 2011-2012	LMS and Technology teacher at Winn	Local/Kets
Have a district technology fair or STEM fair. All classrooms will participate	Provide an audience and purpose for the relevant learning experiences that incorporate digital tools and resources to promote student learning and creativity.	The fair	Each year in the Spring 2012-2015	STLP coaches, STC's, Robotics coaches and Champion Technology Teachers.	Local

Student Technology Literacy Goals – Evaluation

- 1) The steps and activities being implemented assure that students are meeting the expectation of technology literacy by the 8th grade. All grades are represented throughout the goals. K-12 students participate in STLP, Robotics, digital citizenship, creating and publishing.
- 2) The goals support the enhancement of students' 21st Century Skills of critical thinking, communication, collaboration and creativity. They will be working together in groups to communicate in a variety of forms to solve real world problems..
- 3) Materials and electronic resources needed to support these strategies are: A list of Internet safety websites, multimedia publishing software Lego/robot kit and accessories for Robotics, and computers.
- 4) The process for gathering data will be the Program Review and Core Curriculum web sites and products students create. The District Technology Coordinator will review the goals and progress of each activity weekly. If the standards are not met, the DTC and/or the Champion Technology Teacher will spend time helping teachers meet the goals.

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	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 2012-June 2015	Superintendent, Assistant Superintendent, and DTC	Local technology Funds
STEM Training	Students will experience more STEM activities	List of trainings	July 2012-2013	Building Principals	Local
Champion Technology Teachers, STC's, Library Media Specialists and DTC will provide technology training within the district	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 2012-2015	Champion Technology Teachers, STC's, Library Media Specialists, and DTC	Local/KETS

Staff Training/Professional Development Goals – Evaluation

- 1) Nineteen percent of the Carroll County teachers are not proficient in Standard 6. By 2015, all teachers will be proficient.
- 2) Training will focus on enhancing teachers' knowledge and implementation of 21st century skills and college/career readiness.
- 3) Train-the-trainer will be used in the schools through the Library Media Specialists, Champion Technology Teachers and School Technology Coordinators. Conferences will attended by some.
- 4) Training will only be offered to match the curriculum goals for the district – helping students become college and career ready.
- 5) Technical staff will be trained at the KYSTE conference technical sessions and the Monthly DTC meetings as opportunity arises.
- 6) 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.

Technology Goals

As we continue to get more and more devices in the district, switches, AP's and CAT6 wiring needs to be upgraded/replaced. Switches and AP's will be on a 5 year cycle. 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	Students will be able to complete task on devices.	Working wired and wireless devices	July 2012-July13 Completed	DTC	Erate/General Tech Fund \$222,525.86/\$24,725.10
Hardware Maintenance(VOIP, Switches, Aps, and VBrick)	Students will be able to complete task on devices.	Network Uptime	July 2012-July 2015	DTC	\$27,061.83/\$5,268.27 Erate/General Tech Fund
Fiber Maintenance	Students will be able to complete task on devices.	Network Uptime	July 2012-July 2015	DTC	\$6,912.00/768.00 Erate/General Tech Fund
Telecommunications	Students will be safe in their environment.	Available communication within and outside the district.	July 2012-July 2015	DTC	\$42,336.00/4,707.00 Erate/General Tech Fund
District Wiring	Students will be able to complete task on devices.	Successful deployment of new CAT 6 Wiring.	July 2012-July13 Completed	DTC	\$222,223.96/24,669.33 Erate/General Tech Fund
Webhosting	Students will have access to district resources needed for instruction.		July 2012-July 2015	DTC	2700.00/\$1300.00

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
To maintain/replace 2 SMART Boards and 3 projectors per year per school or other new technology with similar function	Teachers will be able to utilize devices to display teacher/student work.	Working equipment	2012-2015	DTC	KETS/Technology General Fund
Maintain Teacher/Administrator Devices	Teachers/Administrators will have daily access to teaching material.	Working Teacher/Administrator devices.	2012-2015	DTC	KETS/General Technology Funds
Provide Subject sets of ibooks to 9 th and 10 grades	Students will have greater access to any time instruction	More student devices.	2012-2015	Superintendent, Assistant Superintendent	District General Fund/Grants
Add Subject sets of Ipads to all grade levels at Cartmell and CCMS	Students will have greater access to any time instruction	More student devices.	2012-2013 Completed	Superintendent, Assistant Superintendent	District General Fund/Grants
To provide sets of devices (iPods, iPads, etc) to all grade levels at Winn	Students will have greater access to any time instruction	More student devices.	2012-2015	Superintendent, Assistant Superintendent	District General Fund/Grants

Technology Goals – Evaluation

- 1) The vision for Carroll County is to have every student college and career ready. Students need access to use functioning up-to-date technology.
- 2) Through modern switches, cabling, and AP's, the students and staff can continue their work in a seamless environment.
- 3) Maintaining the current and new equipment will help eliminate frustration when immediate fixes are available.
- 4) A survey will indicate the extent to which technology deployment and support activities are effective in promoting integration of technology into the curricula and instruction, enhance the ability of teachers to teach, and enable students to meet challenging state academic standards.

Budget Summary 2012-13

Acquired Technologies and Professional Development	Ed Tech Competitive Title IID	Ed Tech Formula Title IID	E-Rate	NCLB/other than Title IID	KETS	Other (Specify) General Tech Fund
Bell South Telco	NA	NA	\$28,728.00	NA		\$3,192.00
Insight Fiber Maintenance	NA	NA	\$6,912.00	NA		\$768.00
Verizon Telecommunications Services for Cell Phone	NA	NA	\$13,608.00	NA		\$1,512.00
Professional Development –	NA	NA	\$0.00	NA		\$15,000.00
Salaries and Fringes - (includes STCs, STLPs, and CTT's)	NA	NA	\$0.00	NA		\$231,727.00
Hosted Web Services	NA	NA	\$2,700.00	NA		\$1,300.00
Maintenance of VOIP	NA	NA	\$6825.00	NA		\$682.50
Maintenance of VBrick	NA	NA	\$15,348.10	NA		\$1,705.34
Basic Maintenance of Internal Connections Enterasys	NA	NA	\$4,888.73	NA		\$2,880.43
District Wiring	NA	NA	\$222,223.96	NA		\$24,669.33
Software/Maintenance/Licenses/Support/Apps	NA	NA	\$0.00	NA		\$44,500.00
Hardware – Switches and AP's	NA	NA	\$222,525.86	NA		\$24,725.10
Video Conferencing Sessions	NA	NA	\$0.00	NA	NA	\$9,000.00
Infrastructure/Hardware - Devices			\$0.00		\$21,000.00	\$183,184.30
TOTAL	NA	NA	\$523,759.65	NA		\$544,846.00

Budget Summary 2013-14

Acquired Technologies and Professional Development	Ed Tech Competitive Title IID	Ed Tech Formula Title IID	E-Rate	NCLB/other than Title IID	KETS	Other (Specify) General Tech Fund
Bell South Telco	NA	NA	\$26,174.40	NA		\$5,745.60
Insight Fiber Maintenance	NA	NA	\$6,912.00	NA		\$1,382.40
Verizon Telecommunications Services for Cell Phone	NA	NA	\$13,608.00	NA		\$2721.60
Professional Development –	NA	NA	\$0.00	NA		\$15,000.00
Salaries and Fringes - (includes STCs, STLPs, and CTT's)	NA	NA	\$0.00	NA		\$247,386.00
Hosted Web Services	NA	NA	\$3,157.00	NA		\$843.00
Maintenance of VOIP	NA	NA		NA		\$7693.76
Maintenance of VBrick	NA	NA		NA		\$15,772.19
Basic Maintenance of Internal Connections Enterasys	NA	NA		NA		\$8,560.82
Software/Maintenance/Licenses/Support/Apps	NA	NA	\$0.00	NA		\$44,500.00
Video Conferencing Sessions	NA	NA	\$0.00	NA	NA	\$9,000.00
Infrastructure/Hardware - Devices			\$0.00		\$40,000.00	\$66480.63
						\$425,086.00
TOTAL	NA	NA	\$49,851.40	NA	\$40,000.00	

Budget Summary 2014-15

Acquired Technologies and Professional Development	Ed Tech Competitive Title IID	Ed Tech Formula Title IID	E-Rate	NCLB/other than Title IID	KETS	Other (Specify) General Tech Fund
Bell South Telco	NA	NA	\$26,174.40	NA		\$5,745.60
Time Warner Fiber Maintenance	NA	NA	\$46,740.00	NA		\$10,260.40
Verizon Telecommunications Services for Cell Phone	NA	NA	\$13,608.00	NA		\$2721.60
Professional Development –	NA	NA	\$0.00	NA		\$15,000.00
Salaries and Fringes - (includes STCs, STLPs, and CTT's)	NA	NA	\$0.00	NA		\$247,386.00
Hosted Web Services	NA	NA	\$3,157.00	NA		\$843.00
Maintenance of VOIP	NA	NA		NA		\$7693.76
Maintenance of VBrick	NA	NA		NA		\$15,772.19
Basic Maintenance of Internal Connections Enterasys	NA	NA		NA		\$8,560.82
Software/Maintenance/Licenses/Support/Apps	NA	NA	\$0.00	NA		\$44,500.00
Video Conferencing Sessions	NA	NA	\$0.00	NA	NA	\$9,000.00
Infrastructure/Hardware - Devices			\$0.00		\$40,000.00	\$57,602.63
Total						\$425,086.00
Total			\$49,851.40		\$40,000.00	

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. Though no funds are committed for specific technology, a goal to get as close to one to one in the district is a priority. This past year, Juniors and Seniors were given Apple laptops to use – not from this budget. iPads and other devices will be explored and decisions on which device to give what grade levels. We search out grants to help fund technology in the district.

Attachments/Appendices (Optional)