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**2009-2013**

**Strategic Technology Plan**  
*Henderson County Public Schools*

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Developed  
By

The Henderson County Public Schools Technology Committee

*With Support From  
Educational Technology Implementation and Planning Services  
Instructional Technology Services  
And North Carolina Department of Public Instruction*

*Approved by the School Board on 10/14/2008*



## Necessary Components for the LEA Technology Plans North Carolina G. S. § Article 8, Part 3A 115c-102.6A-C(16).

In order for local education agencies to meet requirements as set forth in North Carolina General Statute § Article 8, Part 3A 115c-102.6C-A, each section of the plan must include at least one strategy or objective that addresses the following:

### **NC public schools will produce globally competitive students.**

1. Mathematics/reading scores improvement
2. Classroom use of student resources
3. IMPACT model implementation
4. Computer Skills Test score improvement
5. Computer Skills Curriculum implementation
6. Information Skills Curriculum implementation
7. Technology integration across the curriculum
8. Student distance learning opportunities
9. Assistive technology availability
10. Global Exchange
11. Support for Early College/Learn and Earn (or similar) programs

### **NC public schools will be led by 21st Century professionals.**

1. Teacher/staff skills assessment
2. Diverse training resources (local and online including DPI resources)
3. Follow-up support
4. Local certification and professional development requirements
5. Ethical and professional standards
6. Evaluation of training
7. Readiness of an educator to design, implement, and discuss assessment strategies is referred to as "assessment literacy."
8. Global awareness training\*

**\*Global Awareness:** The recognition and understanding of interrelationships among international organizations, nation-states, public and private economic entities, socio-cultural groups, and individuals across the globe.

**NC public school students will be healthy and responsible.**

1. School campus security (video, alarms, metal detectors, etc.)
2. School bus security (video, radios, cell phones, etc.)
3. Student and Staff ID systems
4. Student Information/Tracking Systems (SIMS/NCWISE, nutrition, etc.)
5. Internet and email filtering/security
6. Classroom telephone systems and other communications devices
7. Website use (district, school and classroom)
8. Equitable access to resources
9. Ethical and personal responsibility
10. Policy and procedures to address global, ethical and responsible use
11. Technology used to educate, monitor and maintain healthy student lifestyles

**Leadership will guide innovation in NC public schools.**

1. Leadership enabling teaching and learning collaborative projects
2. MTAC
3. Leadership communication tools and venues
4. Leadership created professional growth opportunities
5. Partnerships
6. Process for addressing ongoing change

**NC public schools will be governed and supported by 21st Century systems.**

1. Policy
2. Budget
3. Personnel
4. Security
5. Administrative Applications
6. Hardware
7. Infrastructure-School Local Area Networks and District Wide Area Networks
8. Communication and collaboration tools (email, Web 2.0, file management) for clientele



## Technology Committee Members

All committee members have been involved in the development of this plan and support its implementation.

Name	Title or Group Represented	Signature	Date
Rick Fender	Senior Director for Technology	<i>Rick Fender</i>	9/15/08
Amber McMillan	Instructional Technology Facilitator K-5	<i>Amber McMillan</i>	9/15/08
Angie McClung	Instructional Technology Facilitator 6-12	<i>Angie McClung</i>	9/15/08
Bo Caldwell	Senior Director for Facilities	<i>Bo Caldwell</i>	9/15/08
Kerry Shannon	Chief Finance Officer	<i>Kerry Shannon</i>	9/22/08
Kathy Revis	Assistant Superintendent for Curriculum & Instruction	<i>Kathy Revis</i>	9/15/08
Kim Deaton	Principal, Atkinson Elementary	<i>Kim Deaton</i>	9/15/08
Matthew Gruebmeier	Principal, East Henderson High	<i>Matthew Gruebmeier</i>	9-15-08
Pamela H. Ray	Director of Career & Technical Education	<i>Pamela Ray</i>	9-15-08
Helen Owen	Director of Secondary Math & Science	<i>Helen Owen</i>	9/15/08
Anita Owenby	Director of Elementary Education	<i>Anita Owenby</i>	9/15/08
Tom Patten	Science Teacher-East Henderson High	<i>Tom Patten</i>	9/15/08
Lynn Price	Business Teacher-Rugby Middle	<i>Lynn Price</i>	9/15/08
David Mackey	Teacher-Hendersonville Middle	<i>David Mackey</i>	9/18/08
Brooke Ballard	Lead Teacher, Edneyville Elementary	<i>Brooke Ballard</i>	9/15/08
Doug Gray	Teacher-West Henderson High	<i>Doug Gray</i>	9/18/08
Darlene Tribby	Classroom Teacher-Hendersonville Elem.	<i>Darlene Tribby</i>	9/15/08
Pat Lemmons	Media Coordinator-North Henderson High	<i>Pat Lemmons</i>	9/15/08
Mike Williams	Local Business	<i>Mike Williams</i>	9/15/08
Linda Bradley	Parent-North Henderson High	<i>Linda Bradley</i>	9/22/08
Brandon Pruitt	Student-North Henderson High	<i>Brandon Pruitt</i>	9/22/08
Jacqueline Barrera	Student-North Henderson High	<i>Jacqueline Barrera</i>	9/23/08

# Vision Statement

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The vision of the Henderson County Public Schools is to embrace technology innovations and to create an educational climate that promotes true integration of technology into students' and employees' learning and establishes world accessible twenty-first century classrooms.

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## HCPS will produce globally competitive students.

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It is the belief of Henderson County Public Schools that technology is a tool that enables teachers to work more productively to provide better student monitoring and interventions and bring more interesting and effective lessons into the classroom. It also encourages student creativity and self-direction that prepares the student for responsible citizenship by fostering mastery of basic skills and development of critical thinking and problem solving abilities. Integration of technology in the classroom provides equitable access for each child. HCPS strives to provide availability of technology tools (digital projectors, computers, SmartBoards, document cameras, web-based programs, etc.) to support growing integration of technological tools in the instructional process. Support for technology integration for teachers is provided through professional development on the use and implementation of technology in the classroom.

Henderson County Public School teachers and students currently use technology to support student achievement in multiple ways through communication, research and assessment.

- + Novell to improve network accessibility
- + First Class email for communication and web design
- + Conference folders for curriculum related communication
- + Networked PC on every teachers' desk
- + Access to Computer Labs in every school
  - Wireless
  - Hard Wired
- + *Web sites for all schools*
  - Student information
    - Homework assignments
    - Long term project-based learning activities
  - Parent communication
    - Scheduling parent/teacher meetings
- + Personal Digital Assistants (PDAs)
  - Some teachers and classes
  - Some teachers
  - Every principal
  - Curriculum/instruction staff
- + State and local accountability data used for informed decision making related to student achievement
  - EVAAS (Educational Value-Added Assessment System)
  - EOG/EOC
  - Edusoft/BARG



- ✚ School-wide broadcast capabilities through the Media Centers
- ✚ Using automated library systems at most schools
- ✚ Availability of distance learning at high schools to enhance elective course study
- ✚ Internet-based data analysis for instructional planning

The following programs and/or initiatives are in place to support student achievement:

- ✚ Rapid Web Designer for student and parent communication by teachers
- ✚ Various CTE programs to support specific areas of study
- ✚ Technology driven system to assist in student career choice
- ✚ Assistive technologies and software as required on case by case basis for exceptional children (modified keyboards and monitors, Alphasmarts, audio devices, etc.)
- ✚ Various software to support keyboarding and computer technology skills
- ✚ SAT and ACT preparation opportunities
- ✚ Distance Learning and online course options

Professional development was provided in June 2005 to help teachers prioritize curriculum objectives and develop benchmark assessments to measure progress in student achievement throughout the school year for grades 3-8 and selected courses in grades 9-12. These assessments and related data analysis are used for diagnostic purposes to identify intervention strategies. Development and revision of curricular benchmarks will be continued annually.

The desire for continued support of data driven decisions resulted in the development of an online tool for K-2 teachers in August 2007. This tool supports the North Carolina assessment for K-2 students in literacy and math. The BARG (Benchmark Assessment Results Generator) allows teachers to record K-2 assessment data and generate reports for continued improvement in student achievement. The related software/websites that are listed below will be utilized as part of this implementation:

- ✚ Edusoft Online Services for local benchmark assessment and diagnostic data analysis of student performance
- ✚ EOG, EOC, Computer Skills, Writing data analysis
- ✚ Test Mate Clarity for benchmark assessments
- ✚ BARG (Benchmark Assessment Results Generator for K-2)
- ✚ EVAAS

The IMPACT Model for Media and Technology is used as a guideline for implementation in HCPS schools to address flexible access, personnel, resources and collaboration between students, teachers and the media specialist:



- ✚ Open and flexible access for middle and high schools
- ✚ Fixed and flexible access in elementary schools
- ✚ Certified media coordinators
- ✚ Elementary school half-time media assistants;
- ✚ Middle school full-time media assistants;
- ✚ High school full-time media assistants
- ✚ 1 half-time media/career assistant at Balfour Education Center
- ✚ Middle School full time computer lab assistants
- ✚ Network online resources capability at all schools
- ✚ Informal collaboration between media coordinator and classroom teacher on limited basis

We approximate computer numbers as follows:

- ✚ At least 3 in all 3-5 Elementary classrooms
- ✚ 1-2 in Middle classrooms
- ✚ 1-2 in High School classrooms
- ✚ At least one wireless lab in all schools
- ✚ At least one hard-wired lab in twenty-one schools
- ✚ At least 5 computers in every Media Center

All 22 elementary, middle and high schools have access to the Internet.

Opportunities for distance learning are available to middle and high school students through the following partnerships:

- ✚ AP Online
- ✚ NC Virtual Public Schools
- ✚ UNCG iSchool
- ✚ NCCCS
- ✚ Blue Ridge Community College

Digital resources are made available to and utilized by students and teachers to support learning. The resources used with the greatest frequency are provided below:

- ✚ NCWISE OWL is the primary database used by students and professionals.
- ✚ LearnNC and a variety of web sites are used by DPI consultants to provide information about curriculum and lesson planning for teachers.

- ✚ Teachers use a variety of resources to communicate with students. (Ex: Rapid Web Designer, HCPS Edublog, HCPS Moodle, wikis and HCPS Survey)
- ✚ WorldBook Online provides video, audio, and primary sources
- ✚ Other software available to students (TI Navigator Systems, SAS in Schools, GPS Systems, etc.)
- ✚ Multimedia presentation training such as Digital Storytelling
- ✚ Textbook publishers provide e-books online and CD copies of texts.
- ✚ Career Tech Education blueprints and curriculum guides are distributed on CD.
- ✚ FirstClass conference folders for content areas

HCPS encourages technology use for global exchange and partnerships through the following:

- ✚ Participation in Geo-caching
- ✚ Middle School participation in national weather data collection and analysis
- ✚ SMILEY internet link via PARI
- ✚ Virtual field trips to museums and historic sites in other countries
- ✚ GIS sites from other countries to look at population growth and economic trends

Technology is being utilized in HCPS to address issues like foreign language competency and international communications by:

- ✚ High School students enrolled in foreign language classes via NCVPS

HCPS is continually seeking opportunities to expand communication and collaboration in order to support student growth and achievement. Technology tools provide an avenue through which to increase this capability.

## Correlations Between the Technology Strategic Plan & District Strategic Plan

District Technology Plan	HCPS District Strategic Plan
<p><b>Strategic Priority 1:</b></p> <p><i>HCPS will produce globally competitive students</i></p>	<p><b>Goal 1: <i>Focus on Every Child</i></b>  <b>Objective A:</b> Create significantly higher levels of expectations for each child  <b>Objective B:</b> Close the performance gap for under-performing students  <b>Objective D:</b> Maintain Board plan for lower class size</p> <p><b>Goal 2: <i>Maintain Safe, Quality, Energy-efficient Facilities</i></b>  <b>Objective D:</b> Incorporate innovative technology into the infrastructure of facilities</p> <p><b>Goal 3: <i>Provide an Effective Teaching and Learning Environment</i></b>  <b>Objective B:</b> Provide adequate technology resources to support the standard course of study</p>
<p><b>Strategic Priority 2:</b></p> <p><i>HCPS will be led by 21st Century professionals.</i></p>	<p><b>Goal 3: <i>Provide an Effective Teaching and Learning Environment</i></b>  <b>Objective A:</b> Provide sufficient, quality personnel  <b>Objective C:</b> Promote home and school collaboration</p>
<p><b>Strategic Priority 3:</b></p> <p><i>HCPS students will be healthy and responsible.</i></p>	<p><b>Goal 1: <i>Focus on Every Child</i></b>  <b>Objective C:</b> Support the physical, mental and emotional well-being of every child</p> <p><b>Goal 2: <i>Maintain Safe, Quality, Energy-efficient Facilities</i></b>  <b>Objective B:</b> Maintain all schools at a size that promotes a safe environment and that promotes learning for all students</p> <p><b>Goal 2: <i>Maintain Safe, Quality, Energy-efficient Facilities</i></b>  <b>Objective C:</b> Continue the plan for future construction and renovation  <b>Objective D:</b> Incorporate innovative technology into the infrastructure of facilities</p>
<p><b>Strategic Priority 4:</b></p> <p><i>Leadership will guide innovation in HCPS.</i></p>	<p><b>Goal 2: <i>Maintain Safe, Quality, Energy-efficient Facilities</i></b>  <b>Objective C:</b> Continue the plan for future construction and renovation  <b>Objective D:</b> Incorporate innovative technology into the infrastructure of facilities</p> <p><b>Goal 4: <i>Focus on Building Positive Community Relationships</i></b>  <b>Objective B:</b> Develop and implement a plan to build positive relationships and partnerships with the community</p>
<p><b>Strategic Priority 5:</b></p> <p><i>HCPS will be a 21st Century system.</i></p>	<p><b>Goal 3: <i>Provide an Effective Teaching and Learning Environment</i></b>  <b>Objective A:</b> Provide sufficient, quality personnel  <b>Objective B:</b> Provide adequate technology resources to support the standard course of study</p>

**HCPS will produce globally competitive students.**

Include at least one strategy or objective that includes the following:

1. Mathematics/reading scores improvement
2. Classroom use of student resources
3. IMPACT model implementation
4. Computer Skills Test score improvement
5. Computer Skills Curriculum implementation
6. Information Skills Curriculum implementation
7. Technology integration across the curriculum
8. Student distance learning opportunities
9. Assistive technology availability
10. Global Exchange
11. Support for Early College (or similar) programs

**Strategic Priority 1: NC public schools will produce globally competitive students.\***

Strategic Goal: (Please check.)

- Every student excels in rigorous and relevant core curriculum that reflects what students need to know and demonstrate a global 21st Century environment, including a mastery of languages, an appreciation of the arts, and competencies in the use of technology.
- Every student's achievement is measured with an assessment system that informs instruction and evaluates knowledge, skills, performance, and dispositions needed in the 21st Century.
- Every student will be enrolled in a course of study designed to prepare them to stay ahead of international competition.
- Every student uses technology to access and demonstrate new knowledge and skills that will be needed as a life-long learner to be competitive in a constantly changing international environment.
- Every student has the opportunity to graduate from high school with an Associates Degree or college transfer credit.

<b>Objective 1: Use technology to help all students demonstrate proficiency in math/reading</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line (Proposed Beginning &amp; Ending dates)</b>	<b>Method of Evaluation</b>	<b>Evaluation Results June, 2010</b>
<b>1.1</b> <i>Analyze test data from student diagnostic reports from a variety of sources</i>	<i>*Teachers, Assistants *Benchmark tools *Accelerated Reader *Skills Bank *CMI's *EOG tests *Quarterly reading/math assessments *Voyager Passport Extended Day * NCWISE *Instructional Coaches</i>	<i>*Principal *Certified Staff *Curriculum and Instruction Staff</i>	<i>None</i>	<i>None</i>	<i>Beginning August 2009 - June 2010 To be reviewed annually thereafter until June 2013</i>	<i>Review of data analysis  Record of data analysis meetings with administrators  Records of Instructional Coach meetings  C&amp;I Summary reports</i>	
<b>1.2</b> <i>Integrate Computer Skills and Information Technology curricula with the English/ Language Arts Standard Course of Study</i>	<i>*Reading programs (such as SuccessNet, Zoophonics, Scholastic, Intel, A to Z books), NCDesk *Instructional Coaches</i>	<i>*Senior Director for Technology *Teachers</i>	<i>\$24,300 for K-2 MS Office licenses</i>	<i>State and Local Funds Title II Federal</i>	<i>Beginning August 2009 - June 2010 To be reviewed annually thereafter until June 2013</i>	<i>Intel Unit Plans  EOG/EOC scores</i>	

Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
1.3 Integrate Computer Skills and Information Technology curricula with the Math Standard Course of Study	*Math programs (such as textbook supplementary resources, Exampro, Skills banks for math, Math Munchers, GPS/GIS, LabQuest LabPro, etc.), NCDesk, Intel *Instructional Coaches	*Teachers	Varies per school (school-based purchases and textbook adoption software)	State and Local Funds Title II Federal	Beginning August 2009 - June 2010 To be reviewed annually thereafter until June 2013	Intel Unit Plans  EOG/EOC scores  Learning Focused Documentation	
1.4 Educate personnel on the IMPACT model and advocate the need for flexibly scheduled media centers and labs	* NCDPI IMPACT: Guidelines for Media and Technology Programs *Website Resources I-News Publication for Administrators	*Principals *Media Coordinators *Technology Facilitators	No additional funds needed	None	2009-2013 To be reviewed annually	School schedules  Advocacy Documentation	
1.5 Ensure adequate computer access as district student growth issues arise	*New Hardware *Building of Facilities *New connectivity	* Principals *Chief Finance Officer *Senior Director for Technology *Director of Facilities *Superintendent	Unknown, Investigate cost factors and seek adequate funding as new construction occurs	Local Funds	2009-2013 To be reviewed annually	AMTR	

Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
1.6 Implement Diagnostic Quarterly Assessments in grades 3-8 and EOC courses in high school and K-2 Assessments in Math and Reading	*Edusoft Web-based Software *Integration of NCWISE data *Professional Development *Instructional Coaches *BARG	*Curriculum & Instruction Staff *Senior Director for Technology *Trainers *Technicians *Webmaster	\$75,000 first year \$50,000 every year (funded by Curriculum and Instruction)	State Instructional Funds	2009-2013 To be reviewed annually	Monitoring and data analysis of Edusoft student reports  C&I Summary Reports	
<b>Objective 2 Implement technology skills across the curriculum.</b>							
Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
2.1 Use appropriate technology for research, communications, publishing, and presentation in all disciplines	*Microsoft Office *Data Projectors *Document Cameras *Smart boards *Various quality software *NCWISE *Instructional Coaches	*Teachers *Instructional Technology Personnel *Media Coordinators *Webmaster	Approximately \$30,000 per year, varies per school	Continued state funding of NC Wise Owl; State/ local technology funds School Funds	2009-2013 To be reviewed annually	Student products from Intel program  Computer Skills test  Graduation Projects	



Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
<p><b>2.2</b></p> <p>Use project-based interdisciplinary integration of technology (including international PBL exchange via Intel and other online resources)</p>	<p>*Intel *Webquests &amp; Virtual Field Trips *NC WiseOwl *NovaNet *Laptops *Data projectors *United Streaming/ Safari Montage *WorldBook Online</p>	<p>*Teachers *Instructional Technology Personnel *Media Coordinators *Curriculum and Instruction staff *Instructional Coaches</p>	<p>\$40,000 per year for Intel Stipends and Supply  WorldBook Subscription</p>	<p>Continued state funding of NC WiseOwl; State and local technology funds School Funds</p>	<p>2009-2013 To be reviewed annually</p>	<p>*Participant Unit plans from Intel  *Online Intel survey  Learning Focused Documentation</p>	
<p><b>2.3</b></p> <p>Continue to integrate technology in student projects which foster creativity, curiosity and innovation related to real-world situations</p>	<p>*Collaborative planning time *Technology Staff *Staff Development *Science Learning Opportunities (Science Fair, Science Olympiad, Robotics, etc.)</p>	<p>*Teachers *Media Coordinators *Instructional Technology Personnel *Instructional Coaches</p>	<p>No additional Funds Needed</p>	<p>None</p>	<p>2009-2013 To be reviewed annually</p>	<p>*IMPACT *Other student projects *State exit requirements are satisfied *Graduation Projects</p>	
<p><b>2.4</b></p> <p>Model and support use of technology (including the use of digital cameras, laptops and use of Palms for observations) by administrators</p>	<p>*PDAs *Technology facilitators *Email *NCWISE *Digital Cameras *Presentation software and hardware *Edusoft reports *Laptops</p>	<p>*Superintendent *Central Office Staff *Principals *Teachers *Instructional Coaches</p>	<p>\$2000 per year</p>	<p>Local Funds</p>	<p>2009-2013 To be reviewed annually</p>	<p>Observations</p>	

Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
<b>2.5</b> <i>Provide assistive devices for special needs students</i>	<i>*Technology assistive devices as needed on a case-by-case basis</i>	<i>*Director of Exceptional Children *EC Teachers</i>	<i>Approximately \$30,000 per year</i>	<i>Exceptional Children Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>Purchase Orders</i>	
<b>2.6</b> <i>Refurbish/Reuse computers as needed to satisfy appropriate needs within the district</i>	<i>*Internet drops *Wireless connections *Designated computers identified, refurbished and reintroduced *continued technical support</i>	<i>*Superintendent *Senior Director for Technology *Principals *Technicians</i>	<i>Funds allocated in 21<sup>st</sup> Century Systems section</i>	<i>State and Local Technology Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>AMTR</i>	
<b>2.7</b> <i>Devise and implement a hardware purchase plan which will prevent interruption of program services</i>	<i>*New computers *Technicians *Business Partners</i>	<i>*Senior Director for Technology *Technology Committee *School Media Coordinators *School Principals</i>	<i>Funds allocated in 21<sup>st</sup> Century Systems section</i>	<i>Local and State Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>Hard copy of Technology Computer Purchase Plan</i>	
<b>2.8</b> <i>Maintain computer access for itinerant and roving teachers</i>	<i>*Computers *Wireless internet for media centers *Novell Network</i>	<i>*Senior Director for Technology *Principals *Technology staff</i>	<i>\$10,000 over the course of this plan</i>	<i>Local and State Funding</i>	<i>2009-2013 To be reviewed annually</i>	<i>Purchase Orders</i>	

<b>Objective 3 Students will achieve proficiency on the Computer Skills test.</b>							
Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
<b>3.1</b> Continue targeted remediation in computer skills	*Teachers * NC Standard Course of Study *NCDesk	*Principals *Teachers	No additional funds required	None	2009-2013 To be reviewed annually	Passing scores on objective and performance sections of the computer skills test	

<b>Objective 4 Investigate the cost factors and opportunities to increase the availability of distance learning.</b>							
Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
<b>4.1</b> Support distance learning opportunities	*Technology Facilitators *Distance Learning Advisors (NCVPS, UNCG iSchool, NCCCS) *Technicians	*Senior Director for Technology *Content Area Specialists *Principals * Assistant Superintendent for Curriculum and Instruction	Undetermined	Local Funds	2009-2013 To be reviewed annually	Documentation of offered courses  Number of students enrolled	
<b>4.2</b> Initiate the Early College Program	*Curriculum and Instruction staff *BRCC	*Curriculum and Instruction staff *High school guidance counselors *School Principals	Undetermined	State Funds	2009-2013 To be reviewed annually	Number of enrolled students	

Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
<b>4.3</b> <i>Investigate the options of increasing global exchange capabilities</i>	<i>*Vendors  *Senior Director for Technology</i>	<i>*Senior Director for Technology  *Curriculum and Instruction staff</i>	<i>None</i>	<i>Local funds</i>	<i>2009-2010</i>	<i>Report of findings</i>	

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## HCPS will be led by 21st Century professionals.

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Educational research indicates that the quality of teachers, administrators and staff has an impact on student learning and high student achievement. As more technology is utilized in the K-12 environment, the need for knowledgeable teachers, administration and staff becomes paramount. Technology staff development for all employees continues to be a strong focus and growing need of the Henderson County Public Schools; however, because of the removal of technology requirements at the state level, the district does not impose specific technology professional development requirements.

Technology professional development for teachers is offered through programs such as:

- + **Intel Teach to the Future** - an intensive, 60 hour international program which promotes the flawless integration of technology into the Standard Course of Study and the National Educational Technology Standards (NETS) using Web 2.0 resources and 21<sup>st</sup> Century Skills.
- + **Rapid Web Designer** - workshops assisting teachers in creating and maintaining classroom websites in order to utilize technology to share information more efficiently.
- + **Technology Affecting Students in the Classroom (TASC)** - weekly workshops assisting teachers in integrating technology into the classroom, based on technology needs assessment results, varied topic and grade level focus
- + **Other instructional technology** - programs involving curriculum, student data, communication and office tools, such as Word, PowerPoint, Publisher and Excel.
- + **Various software education** - sessions to help teachers and students utilize Kidspiration2, GeoSkills, WiggleWorks, and other textbook software to enhance and support the curriculum objectives.
- + **Textbook Online Resources** - training on the utilization of online resources provided by textbook adoptions
- + **Basic Technology Applications**- work sessions to support a variety of software applications used in HCPS (ex. FirstClass, Novell/ZENWorks, NCDesk, etc.)
- + **Professional development opportunities on DPI online resources**— (NCWiseOwl, Kaleidoscope, etc.)

Administrators and other staff have been involved in technology professional development which has focused on work-related and assessment technology tools. Listed below are examples of these tools.

- + **First Class Email and Conference Folders**- enabling efficient and expedient online and intranet communication

- ✚ USDDC- allowing online tracking of discipline through technology tools
- ✚ AlertNow- online tool facilitating emergency and relevant communications
- ✚ PDAs- facilitating storage, sharing, and transferring of data
- ✚ SEA System-supporting a comprehensive online staff development management system
- ✚ NCWISE-online tracking of student informational and academic data
- ✚ Other online tools (CECAS, eProcurement, online employee time accounting system, etc.)
- ✚ Edusoft- reporting and analyzing data on benchmark assessments
- ✚ BARG-online reporting and analyzing data on K-2 assessments
- ✚ HCPS SURVEY TOOL- online reporting and retrieval system
- ✚ EVAAS- online program for predicting student performance based on individual student testing trends

Employees continue to receive ongoing technology staff development as new programs are implemented within the county. Examples of these programs include, but are not limited to the following:

- ✚ TACS- for time accounting
- ✚ AS400 and School Funds- for financial accounting
- ✚ Rapid Web Designer 3.0- for webpage design and hosting
- ✚ Web 2.0/Hybrid Learning Environment-for course management

Henderson County Public Schools employs two full-time Technology Facilitators. These individuals provide district level planning, coordinating and implementing of technology education initiatives. These sessions are offered in a variety of formats and environments:

- ✚ PC Training Lab at Balfour Education Center
- ✚ Mobile Wireless PC Labs
- ✚ On-line/hybrid learning
- ✚ Distance Learning
- ✚ Train-the-Trainer Sessions

The Henderson County Public Schools strives to prepare students, staff and administrators to work successfully in a technology environment. The Instructional Technology team and available qualified personnel (such as Instructional Coaches and Media Coordinators) are successfully providing professional development that is improving classroom and workplace technology skills, resulting in higher teacher quality.

**HCPS will be led by 21st Century professionals.**

Include at least one strategy or objective that includes the following:

1. Teacher/staff skills assessment
2. Diverse training resources (local and online including DPI resources)
3. Follow-up support
4. Local certification and professional development requirements
5. Ethical and professional standards
6. Evaluation of training
7. Readiness of an educator to design, implement, and discuss assessment strategies ("assessment literacy.")
8. Global awareness training

<b>Strategic Priority 2: NC public schools will be led by 21st Century professionals.*</b>
Strategic Goal: (Please check.) <ul style="list-style-type: none"><li><input type="checkbox"/> Every teacher will have the skills to deliver 21st Century content in a 21st Century context with 21st Century tools and technology that guarantees student learning.</li><li><input type="checkbox"/> Every teacher and administrator will use a 21st Century assessment system to inform instruction and measure 21st Century knowledge, skills, performance, and dispositions.</li><li><input type="checkbox"/> Every education professional will receive preparation in the interconnectedness of the world with knowledge and skills, including language study.</li><li><input checked="" type="checkbox"/> Every education professional will have 21st Century preparation and access to ongoing high quality professional development aligned with State Board of Education priorities.</li><li><input checked="" type="checkbox"/> Every educational professional uses data to inform decisions.</li></ul>



<b>Objective 1: All teachers will utilize the web and/or other Web 2.0 tools to enhance communication and facilitate student learning.</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line (Proposed Beginning &amp; Ending dates)</b>	<b>Method of Evaluation</b>	<b>Evaluation Results June, 2010</b>
<b>1.1</b> <i>Provide initial and follow-up training for teachers in RWD, Moodle, Edublog, wikis, etc.</i>	<i>*Technology Facilitator *Webmasters *Intel V.10</i>	<i>*Technology Staff</i>	<i>Cited in Strategic Priority 1, 2.2</i>	<i>Local</i>	<i>2009-2013 To be reviewed annually</i>	<i>List of RWD training opportunities  List of TASC Training</i>	
<b>Objective 2: A high quality professional development program will be designed and implemented based upon data collection activities.</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results June, 2010</b>
<b>2.1</b> <i>Administer annual needs assessment survey for staff (including self-assessment)</i>	<i>*Instructional Technology Staff *Webmaster *Web access *Technology Committee</i>	<i>*Instructional Technology Staff *School Principals</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>Survey results</i>	
<b>2.2</b> <i>Conduct satisfaction surveys for Technology training</i>	<i>*Web Access *HCPS staff *Instructional Technology Staff</i>	<i>*Instructional Technology Staff</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>Survey results</i>	

Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line	Method of Evaluation	Evaluation Results June, 2010
<b>2.3</b> <i>Provide diverse training resources based on survey data results (including Moodle, online videos, local workshop series, school-based, etc.)</i>	<i>*Instructional Technology Facilitators  *Personnel Director  *Curriculum and Instruction Staff  *Training Supplies and Equipment  *Webmaster</i>	<i>*Senior Director for Technology  *Instructional Technology Staff</i>	None	None	2009-2013 To be reviewed annually	Class Offerings Evaluation Data	
<b>2.4</b> <i>Create local modifications of state professional development requirements to assure focus on technology skill development</i>	<i>*Instructional Technology Facilitators  *Personnel Director  *Curriculum and Instruction Staff  *Training Supplies and Equipment</i>	<i>*Senior Director for Technology  *Personnel Director</i>	Cited elsewhere in plan	Cited elsewhere in plan	2009-2013 To be reviewed annually	Class evaluation results	

<b>Objective 3: Increase EOC/EOG scores in all areas through improved professional development, taking advantage of diverse online resources.</b>							
<b>3.1</b> <i>Implement training sessions for the use of Benchmark assessments data for data-driven decision-making</i>	<i>*Instructional Technology Staff and Curriculum and Instruction Staff *Teachers *Curriculum *LearnNC, NC WiseOwl, other online resources</i>	<i>*Curriculum Staff *Technology Staff *Instructional Coaches</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>Instructional Coach Summaries  C&amp;I Summary Reports</i>	
<b>3.2</b> <i>Evaluate quality of overall training sessions and facilitators</i>	<i>*Evaluation Instrument</i>	<i>*Curriculum Staff *Director of Personnel *Instructional Technology Staff</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>Survey results</i>	

<b>Objective 4: A high quality professional development program will be designed and implemented to promote successful NC WISE deployment.</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results June, 2010</b>
<b>4.1</b> <i>Conduct ongoing training sessions for admins, technicians, teachers, and other staff</i>	<i>*Technology facilitators *Lab and web access *DPI resources</i>	<i>Technology Staff School Staff</i>	<i>\$7,000 per year</i>	<i>State resources, Local Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>List of Training Opportunities</i>	

Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line	Method of Evaluation	Evaluation Results June, 2010
<b>Objective 5: District policies will reflect changing requirements to ensure high quality standards.</b>							
<b>5.1</b> Develop technology policies to ensure use adhering to high quality standards.	*Technology Staff *Technology Committee	Technology Staff School Staff	None	None	2009-2013 To be reviewed annually	Board approval of policies	
<b>Objective 6: District technology staff development will include Global Awareness as part of training.</b>							
<b>6.1</b> Begin integration of Global Awareness into Professional Development	*Technology Staff *Intel V.10 *C&I Staff	Technology Staff School Staff Curriculum Directors	None	None	2009-2013 To be reviewed annually	Course Curriculum Information (Outlines, Listings, Agendas, etc.)	

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## HCPS students will be healthy and responsible.

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Students must know that they are in a safe and caring environment in order to facilitate active and in-depth learning. Toward that end, Henderson County Public Schools utilizes technology as a tool to assist school personnel in providing this environment to support its Safe Schools Plan.

Maintaining and accessing adequate and accurate student information is critical to both the education and care of students. Currently, NCWISE is used by our schools. The NCWISE program includes student health, educational programs, and personal information that can be used to make informed decisions.

Communication is an essential part of a secure school environment. In order to promote communication among parents, teachers and school administration, all school principals have been equipped with a PDA (Personal Digital Assistant) that stores pertinent student data. These PDAs contain student contact information, medical history, bus route, school schedule and discipline information. In addition HCPS has implemented an AlertNow system. This system is used to contact all HCPS staff and parents concerning inclement weather, school schedule changes and other general or emergency announcements. All school bus drivers have been equipped with cell phones and radios to facilitate communication with school staff and parents. Child Nutrition has integrated a computerized point-of-sale system that allows cafeteria staff to keep track of students' food consumption, diagnosed allergies and diseases that require dietary restrictions. Intra-school communication is also promoted by school-wide intercom systems, which are upgraded annually on a rotating basis to ensure effective communication throughout the schools. The USDDC disciplinary tracking system also supports better exchange of up-to-date information on student behavior. With better communication regarding our students and their safety, our system is providing for current information and a healthier place in which to learn.

Another essential element for a safe and orderly school environment is the utilization of technology for surveillance and security. Currently, HCPS has equipped all high schools with video surveillance equipment inside and outside the building. This allows school administrators to prevent and reduce vandalism, unauthorized entrances and violence. Several school buses and school cafeterias have also been equipped with video surveillance to prevent vandalism and theft. In addition, some schools have been equipped with computerized lock systems. These systems prevent unauthorized entrance into the schools throughout the day.

For the safety of students and staff, it is imperative that our physical plants be maintained. In order to ascertain that all maintenance issues are dealt with in a timely and organized manner, HCPS has implemented a new computerized

maintenance reporting and tracking system, TeamWorks. All requests are entered into this system and a priority level is assigned. School administrators are able to see when the maintenance order has been processed and completed.

HCPS believes the internet is a valuable tool and should be included as a part of a student's educational experience. To ensure safe use of the internet, we have established security policies and guidelines for student and teacher web use. These guidelines support CIPA requirements and strive to protect the identities of our students. In order to promote a secure learning environment, HCPS has implemented a content filtration system to prevent student access to inappropriate websites and information. Revisions are made to our Acceptable Use Policy as needed. Currently, HCPS uses a program called SmartFilter. Our system is also investigating the possibility of student email accounts. We continually strive to ensure the use of the most effective content filtering for the protection of our students.

Technology also provides support for various student programs in our district. Examples include:

- ✚ College and Career Technology Advisement Center labs
- ✚ Online survey tools (Zoomerang, HCPS Survey tool)
- ✚ Computer monitoring of information on Homeless and Dropout students
- ✚ AlertNow wellness-related announcements (flu shots, etc.)
- ✚ Health alerts via NCWISE
- ✚ Monitoring of attendance via NCWISE

Ethical and personal responsibility issues regarding technology are addressed through Board approved policies. Policy 630 (AUP) addresses how staff and students are expected to utilize technology resources. Ethical and personal responsibility of webpage management is covered in Policy 631. Electronic Stored Information Retention is discussed in Policy 632. This policy requires storage of all FirstClass email and instant message communication for a minimum of 3 years. Policy 766 addresses the ethical responsibility of handling confidential information.

HCPS provides flexible and equitable access to a variety of technology resources via the school media centers. Some of the resources available include:

- ✚ Digital projectors
- ✚ Document cameras
- ✚ SmartBoards
- ✚ Laptop Carts
- ✚ Loaner laptops for training, presentations, and NBPTS candidate use

## HCPS students will be healthy and responsible.

Include at least one strategy or objective that includes the following:

1. School campus security (video, alarms, metal detectors, etc.)
2. School bus security (video, radios, cell phones, etc.)
3. Student and Staff ID systems
4. Student Information/Tracking Systems (SIMS/NCWISE, nutrition, etc.)
5. Internet and email filtering/security
6. Classroom telephone systems and other communications devices
7. Website use (district, school and classroom)
8. Flexible access to resources
9. Equitable access to resources
10. Ethical and personal responsibility
11. Policy and procedures to address global, ethical and responsible use
12. Technology used to educate, monitor and maintain healthy student lifestyles

<b>Strategic Priority 3: NC public school students will be healthy and responsible.*</b>
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Strategic Goal: (Please check.)
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| <ul style="list-style-type: none"><li>✓ Every learning environment will be inviting, respectful, supportive, inclusive, and flexible for student success.</li><li>☐ Every school provides an environment in which each child has positive, nurturing relationships with caring adults.</li><li>☐ Every school promotes a healthy, active lifestyle where students are encouraged to make responsible choices.</li><li>☐ Every school focuses on developing strong student character, personal responsibility, and community/world involvement.</li><li>✓ Every school reflects a culture of learning that empowers and prepares students to be life-long learners.</li></ul> |
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<b>Objective 1: Create learning environments which are inviting and supportive of high student performance</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line (Proposed Beginning &amp; Ending dates)</b>	<b>Method of Evaluation</b>	<b>Evaluation Results June, 2010</b>
<b>1.1</b> <i>Ensure emergency student data is current and accurate</i>	<i>* NC WISE *Completed Student Enrollment Form *Data Managers *Teachers *PDAs *Software upgrade</i>	<i>*Data Manager *Parent/ Guardian *Teachers *School Principals</i>	<i>\$1100 per year for NCWISE Palm software</i>	<i>Local</i>	<i>2009-2013 To be reviewed annually</i>	<i>AlertNow report</i>	
<b>1.2</b> <i>Continue internet content filtering and assess and confirm appropriate email filtering capabilities</i>	<i>*Network Administrator *First Class Administrator *Filtering software *Adequate hardware</i>	<i>*Senior Director for Technology</i>	<i>\$11,000 per year</i>	<i>Local</i>	<i>2009-2013 To be reviewed annually</i>	<i>Network monitoring</i>	
<b>1.3</b> <i>Review and revise technology-related policies, procedures and guidelines in order to provide for changes in technology and security trends</i>	<i>*Webmaster *Director of Technology *Technology committee *Instructional Technology Staff *School Media *Principals</i>	<i>*Senior Director for Technology *Technology Committee</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>Board approval of policies</i>	

<b>Objective 2: Create adequate, safe education facilities that support high student performance</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line (Proposed Beginning &amp; Ending dates)</b>	<b>Method of Evaluation</b>	<b>Evaluation Results June, 2010</b>
<b>2.1</b> <i>Continue to monitor facility transportation security and assess necessary upgrade needs</i>	<i>*Cameras *Computer Equipment *Software *Alarms *Automatic Door Locks</i>	<i>*Facilities Director *Senior Director for Technology *Maintenance Department *Bus Garage</i>	<i>Undetermined</i>	<i>Local and State Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>USDDC Reports</i>	
<b>2.2</b> <i>Investigate new trends associated with deploying various communication devices</i>	<i>*Business Partners *Designated HCPS Staff *Vendors</i>	<i>*Facilities Director *Administrators</i>	<i>Undetermined</i>	<i>School Funds State, Local, and Federal</i>	<i>2009-2013 To be reviewed annually</i>	<i>Vendor Quotes Purchase orders</i>	
<b>2.3</b> <i>Maintain existing student and staff ID systems and investigate opportunities to improve and/or expand</i>	<i>*Director of Personnel *Associate Superintendent *School Principals *ZENWorks Network Policies</i>	<i>*Associate Superintendent *Personnel</i>	<i>\$3,500 per year (including maintenance agreement and materials)</i>	<i>Local</i>	<i>2009-2013 To be reviewed annually</i>	<i>Personnel Records Purchase Orders</i>	

Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
<b>2.4</b> <i>Utilize Web 2.0 tools (Moodle, wikis, Edublog, etc.) to increase flexible access to resources</i>	<i>*Webmaster *HCPS Moodle *HCPS Edublog *Other Web 2.0 sites *Online teachers</i>	<i>*Instructional Technology *Classroom Teachers *Webmaster</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>Web Statistical Analysis</i>	
<b>2.5</b> <i>Continue the leasing of wireless laptop carts in order to ensure equitable access for all students</i>	<i>*Vendor *Technicians</i>	<i>*Senior Director for Technology *Chief Finance Officer</i>	<i>\$175,000</i>	<i>State, Local Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>Purchase Order</i>	

<b>Objective 3: Utilize technology to educate, monitor and maintain healthy student lifestyles</b>							
Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results June, 2010
<b>3.1</b> <i>Utilize NCWISE system to monitor and manage student health alerts</i>	<i>*Nurses *NCWISE Coordinator</i>	<i>*Nurses</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>Nurse Verification</i>	
<b>3.2</b> <i>Utilize AlertNow to communicate wellness events</i>	<i>*AlertNow System *Student Services Director</i>	<i>*Student Services Director</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>AlertNow reports</i>	

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## Leadership will guide innovation in HCPS.

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HCPS is using the Intel Teach to the Future v. 10 course as a strategy to move its school professionals toward a more globally-minded approach to the 21<sup>st</sup> Century Skills. Through this program's utilization of growing Web 2.0 tools, participants experience communication on a more open, global level. Participants in the course collaborate to develop and share project-based units which display their mastery of expanded thinking. Units are subsequently used as instructional tools in the classroom.

In addition teachers develop Learning Focused unit plans and student learning maps to integrate research-based, proven strategies to foster higher order thinking skills and differentiation for all students. The Learning Focused ToolBox is a web-based program that provides the templates and guidelines for developing the units of study. Units are shared through school staff conference folders within FirstClass.

Leaders and administrators are involved in the development of the HCPS Strategic Plan, the School Improvement Plans, and the HCPS Strategic Technology Plan. These documents provide guidance toward Future Ready Goals through the communication of expectations, goals and objectives. All district and school-based decisions are based on the contents of these thorough guidelines resulting in a continuous process of growth, development, and improvement.

We are in the beginning stages of exploring the possibilities associated with Moodle, wikis, blogs, and other Web 2.0 tools to bridge communication between teachers and students in other locations. HCPS Technology has provided a Moodle, a county-created blog, and a customized online survey tool. These resources provide an avenue through which communication reaches beyond the four walls of the classroom.

Administrators and Department Heads plan and execute both county and school-based staff development opportunities. Through the utilization of local funding, grants, and federal funding, professional development is made available to staff. In addition, monies are used to increase the number of staff to deliver professional development. HCPS also provides a support system for candidates for National Board Certification. All of these avenues provide a wealth of opportunities for continued professional growth and are supported with the following technology tools:

- ✚ National Board laptop checkout program
- ✚ Professional Development Lab
- ✚ On-line Moodle Course Management System

- ✚ Edublog
- ✚ FirstClass Conference Folders
- ✚ Webinars
- ✚ Online video training
- ✚ Learning Focused ToolBox

Input from all staff members regarding decisions for technology-related staff development is obtained via:

- ✚ HCPS online survey tool
- ✚ School and District Technology Committee
- ✚ Media Specialist meetings
- ✚ AMTR and TCO
- ✚ Yearly Instructional Technology Department survey
- ✚ Workshop Evaluations

Our School Board receives technology updates from the Senior Director of Technology. The Senior Director chairs the district Media and Technology Committee which meets quarterly to discuss resources, concerns and progress on the district Media and Technology programs.

Henderson County Public Schools has made progress in increasing access to educational opportunities. For example, unique learning centers have been established and serve both our students and the entire community. Balfour Education Center opened in August 2004, and provides myriad specialized services and programs with the support and cooperation of a number of partners. Additionally, HCPS has created the Newcomer Center, which has successfully provided a secure and transitional net of educational initiatives for students who are not ready to participate fully in our traditional educational settings. Finally, HCPS partners with Blue Ridge Community College (BRCC) to provide evening language acquisition programs at three school sites. Computers and face-to-face instruction are provided via this joint partnership to parents who are seeking to improve English language skills and thus increase their educational support skills in the home.

Partnerships are important to the success of HCPS. The school district maintains partnerships with institutions of higher education such as Blue Ridge Community College, Brevard College, Mars Hill College, Western Carolina University, UNC-Asheville, and Montreat College. Partnerships with Blue Ridge Community College enable distance learning opportunities and language acquisition services. These partnerships ensure that HCPS is successful in maximizing its efforts and succeeding in meeting its goals and objectives to its students and the community.

There are also collaborations with business partners such as Performance Data, Ingles, BellSouth, Cisco, Apple Computers, IBM/Lenovo, and Data Networks.

These partners provide HCPS with current networking and technology strategies and technology services that are not available otherwise. Ingles offers financial support through the “Tools for Schools” program. These partnerships enable the growth of technology accessibility within the district.

## Leadership will guide innovation in HCPS.

Include at least one strategy or objective that includes the following:

1. Leadership enabling teaching and learning collaborative projects
2. Media and Technology Advisory Committee
3. Leadership communication tools and venues
4. Leadership created professional growth opportunities
5. Partnerships
6. Process for addressing ongoing change

### Strategic Priority 4: Leadership will guide innovation in NC public schools.\*

Strategic Goal: (Please check.)

- School professionals will collaborate with national and international partners to discover innovative transformational strategies that will facilitate change, remove barriers for 21st Century learning, and understand global connections.
- School leaders will create a culture that embraces change and promotes dynamic continuous improvement.
- Educational professionals will make decisions in collaboration with parents, students, businesses, education institutions, and faith-based and other community and civic organizations to impact student success.
- The public school professionals will collaborate with community colleges and public and private universities and colleges to provide enhanced educational opportunities for students.

<b>Objective 1: HCPS employees will have and utilize school email accounts</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results July, 2010</b>
<b>1.1</b> <i>Create and maintain email accounts</i>	<i>*Server * Computers with network or Internet access * Email software *Email Administrator</i>	<i>*Senior Director for Technology *Personnel Department * Email Administrator</i>	<i>\$13,300 per year</i>	<i>Local and Federal Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>Spreadsheet of created email accounts</i>	
<b>1.2</b> <i>Expand use of advanced FirstClass tools to enable collaborative environments (Workspaces, Conference Folders, etc.)</i>	<i>*School Media Coordinators *Technology Staff *Instructional Technology Staff *Curriculum &amp; Instruction Staff</i>	<i>*Senior Director for Technology *Email Administrator</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>List of available workshops</i>	
<b>Objective 2: HCPS will utilize technology to support collaborative learning environments.</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results July, 2010</b>
<b>2.1</b> <i>Create and maintain websites utilizing interaction between schools</i>	<i>*Instructional Technology Staff * Internet Access *Software and Server *Webmasters *Edublog</i>	<i>*Senior Director for Technology *Instructional Technology Staff *Webmasters *Teachers</i>	<i>Cited elsewhere in plan</i>	<i>Cited elsewhere in plan</i>	<i>2009-2013 To be reviewed annually</i>	<i>List of available workshops Collaborative samples (blogs, wikis, etc.)</i>	



<b>Objective 3: Internet and file access will be provided to HCPS staff and students on school campuses</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results July, 2010</b>
<b>3.1</b> <i>Establish and maintain internet and Novell file access in single tree environment</i>	<i>*File Servers *Computers *Internet Service *School-based Server Administrator *Content Filter *Network Operating</i>	<i>*Senior Director for Technology *Network Administrator *Server Administrators</i>	<i>\$30,000 per year</i>	<i>Local Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>Purchase Orders</i>	
<b>Objective 4: Create and maintain a local public relations program that focuses on partnering with students, parents, and the general public</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results July, 2010</b>
<b>4.1</b> <i>Provide informational media publications to the community in the dominant languages both on the web and in print</i>	<i>*Public Relations Officer * Print Materials *Curriculum &amp; Instruction Department * ESL Director</i>	<i>*Superintendent *Public Relations Officer</i>	<i>\$50,000 per year</i>	<i>Local Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>Samples</i>	

Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line	Method of Evaluation	Evaluation Results July, 2010
<b>4.2</b> Establish and maintain committees, community partnerships and learning centers	*Facilities * HCPS Staff *Business/Community Participants *Public Relations Officer * Curriculum and Instruction Staff	Superintendent  Principals	\$2000 per year	State, Local and Federal Funds	2009-2013 To be reviewed annually	List of committee members  Agendas	
<b>4.3</b> Maintain Media and Technology Advisory Committee at the district level	*Administrators *Parents *Students *Business Partners *Technology Staff	*Senior Director for Technology	\$200 per year	Local	2009-2013 To be reviewed annually	List of committee members  Agendas	
<b>Objective 5: HCPS will provide guidance on technology innovation for leadership, staff and students.</b>							
Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line	Method of Evaluation	Evaluation Results July, 2010
<b>5.1</b> Provide informational print and online publications for administrators on current and global trends	*Instructional Technology Staff *Technology Conferences *Research *NCDPI	* Instructional Technology Staff *Senior Director for Technology	\$2500 (registration, hotel, travel, meals for 2 conferences)	Local Funds	2009-2013 To be reviewed annually	Samples	
<b>5.2</b> Provide innovative staff development opportunities via TASC	*Instructional Technology Staff *Research *Web 2.0 tools *Staff Surveys	* Instructional Technology Staff	\$1000 per year (Supplies/ snacks)	Local Funds	2009-2013 To be reviewed annually	List of TASC Classes Sign-in Sheets	

## HCPS will be a 21st Century system.

Henderson County Public Schools has made progress in the area of technology personnel during the past five years. For example, dedicated district webmaster services have been acquired. Stability and upgrades to our web activities have resulted from efforts of the district's webmaster. Second, a significant change in direction resulted from introducing instructional technology facilitators to our staff. Currently, two positions exist - a 6-12 Facilitator and a K-5 Facilitator. These two individuals have provided increased opportunities for adult learning for our teachers, administrators and staff. Finally, HCPS has seven full-time technology professionals - one network administrator and six full-time technicians. HCPS also employs one part-time technology professional. Plans include adding at least one additional technician each year through 2013. A part-time county-level webmaster is also outsourced to maintain the HCPS main website and other online HCPS tools.

There are three primary sources for technology funding. These sources include local, state and federal funds. Federal funds referenced here are funds and discounts associated with the Federal E-rate program. Formal budget requests for funding are made utilizing a standardized form submitted to the Chief Financial Officer during the budget development process. At this point, requests are reviewed, prioritized, and submitted for review by the local School Board. See included budget information.

While no formal process for seeking grant funding is in place, there are opportunities for funding through local organizations and businesses such as the Henderson County Education Foundation, Best Buy, Rotary, Math/Science Partnership Grants, DonorsChoose.com, etc. Outside grant opportunities are posted on the Henderson County Instructional Technology website and other publications.

The following policies and procedures are in place to support 21<sup>st</sup> Century Systems:

- ✚ Policy 624: **Copyright**-outline of HCPS copyright and educational fair use guidelines
- ✚ Policy 630: **Acceptable use for Internet and Computer Resources**-outlines information security awareness, monitoring and network etiquette
- ✚ Policy 631: **Web Pages**-provides content standards, security information and description of appropriate subject matter for HCPS web pages
- ✚ Procedure 631: **Web Pages**-provides website content guidelines
- ✚ Policy 632: **Electronic Stored Information Retention**-describes HCPS management of electronic stored information and its retention in accordance with N.C. General Statutes

These policies are reviewed annually, as needed.

The HCPS Technology Department ensures the full implementation of the LEA Technology Plan through the process of annual review. Revisions are made as needed to verify the continued alignment with the county Strategic Plan. In addition, yearly monitoring visits conducted by regional DPI technology consultants provide the opportunity to share documentation collected from designated staff. These visits allow for continued review and assured accountability.

HCPS has been able to utilize funding opportunities derived from the federal E-rate program to fund high-speed, reliable and manageable LAN/WAN connectivity throughout our district. Each site is and will continue to be monitored, documented and assessed on its own merit. In return, the respective sites will be provided with necessary equipment to facilitate their assessed bandwidth requirements. As traffic increases over time, our plan will include 1) monitoring and analyzing traffic; 2) determining equipment/line/supply/needs; and 3) securing, updating and installing equipment/lines/supplies that will handle ever-increasing network demands. HCPS has advanced its broadband infrastructure by utilizing reliable Metro-e fiber optic technology. All NCWISE traffic is currently being routed through the NCREN education network to alleviate restraints on current bandwidth. Planning must continue to include sufficient financial and technical resources that assure that the connectivity and infrastructure support efficient district technology applications, hardware and growth.

Adequate computer hardware is another essential component of the district's technology program. Currently, a three year strategic plan has been developed to address technology needs within the district. This plan includes the purchasing of new technology for high schools, middle schools, elementary schools, and district administration. The plan also includes upgrading, refurbishing and re-deployment of existing computers. Also, all twenty-two schools possess at least one mobile computer lab. The challenge is to fund current and future hardware needs. Due to the growth in our computer inventory, facilities and new county initiatives, increased strain is placed on the limited technical support staff.

Successful teaching and learning are at the core of the school mission. Therefore it is our goal to minimize classroom interruptions as much as possible. The assurance of a safe, protective environment is a critical and essential responsibility that the district owes to our teachers, our students and our community. Toward that end, HCPS has both human and digital supervision in place to secure the network environment. Some of the digital tools used to ensure security are VNC; content filtering software; Novell operating system; Deepfreeze desktop management application; Zen hardware and software management tool; spamming and anti-virus devices; and Microsoft patch management technology.

Technology activities continue to expand and become increasingly pervasive and sophisticated. HCPS continues to add applications which support communication and collaboration. Examples of applications include, but are not limited to, FirstClass email, TACS, TeamWorks work order management system, Rapid Web Designer, CECAS, NovaNet, distance learning classes, North Carolina Virtual Public Schools, UNCG iSchool, HRMS, SEA, AS400 Finance Applications, NCWISE, Meals Plus (Point of Sale), E-Procurement, Novell file-sharing capabilities, Learning Focused Toolbox, HCPS Edublog, wikis, HCPS Moodle and other HCPS online tools.

## HCPS will be a 21st Century system.

Include at least one strategy or objective that includes the following:

1. Policy and policy management
2. Budget
3. Personnel
4. Security
5. Administrative Applications
6. Hardware
7. Infrastructure-School Local Area Networks and District Wide Area Networks
8. Communication and collaboration tools

<b>Goal 5: NC public schools will be governed and supported by 21st Century systems.*</b>
Strategic Goal: (Please check.) <ul style="list-style-type: none"><li>✓ Processes are in place for financial planning and budgeting that focuses on resource attainment and alignment with priorities to maximize student achievement.</li><li>✓ Twenty-first century technology and learning tools are available and are supported by school facilities that have the capacity for 21st Century learning.</li><li>✓ Information and fiscal accountability systems are capable of collecting relevant data and reporting strategic and operational results.</li><li>❑ Procedures are in place to support and sanction schools that are not meeting state standards for student achievement.</li></ul>

**Objective 1: HCPS will continue to evaluate and upgrade communication and network infrastructure based on district needs.**

Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line (Proposed Beginning & Ending dates)	Method of Evaluation	Evaluation Results July, 2010
<b>1.1</b> Replace mini switches with rack-mounted Cisco switches throughout district	*Cisco Switches *On-site technology staff	*Senior Director for Technology *Network Administrator	\$125,000	Local, State & Federal Funding	2009-2013 To be reviewed annually	Purchase Orders	
<b>1.2</b> Continue Metro-E router lease	*Vendors *Purchasing Agent *Network Administrator	*Senior Director for Technology *Purchasing Agent	\$36,884 per year	State and Local Funds	2009-2013 To be reviewed annually	Purchase Orders	
<b>1.3</b> Ensure sufficient WAN/LAN operation	*Internet Service Provider *Contracted Services	*Senior Director for Technology *Network Administrator	\$277,148 per year	Local, State, Federal Funds	2009-2013 To be reviewed annually	Copies of Bills	
<b>1.4</b> Ensure sufficient telecommunications operation	*Contracted Services *Designated HCPS staff	*Senior Director for Technology *Director of Technical Services/Maintenance	\$71,881 per year	Local, State, Federal Funds	2009-2013 To be reviewed annually	Copies of Bills	
<b>1.5</b> Ensure sufficient cell phone communication	*Contracted Services *Designated HCPS staff	*Senior Director for Technology *Purchasing Agent	\$51,108	Local, State, Federal Funds	2009-2013 To be reviewed annually	Copies of Bills	

<b>Objective 2: Establish and maintain adequate hardware and software standards</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results July, 2010</b>
<b>2.1</b> <i>Initiate cost-effective solutions in order to maintain hardware standards in classrooms</i>	<i>*Business Partners *Designated HCPS staff *Technology Committee</i>	<i>*Senior Director for Technology</i>	<i>\$371,304 (2009-2010)  2010-2013 to be determined</i>	<i>Local, State, Federal Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>AMTR</i>	
<b>2.2</b> <i>Maintain appropriate hardware and administrative applications to support the NC WISE initiative</i>	<i>*Designated HCPS staff *Technology Committee *NC WISE/SIMS Coordinator *Data Managers</i>	<i>*Senior Director for Technology *SIMS/NC WISE Coordinator</i>	<i>Unable to determine</i>	<i>Local Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>AMTR</i>	
<b>Objective 3: Increase personnel to improve technology support capability and to enhance learning opportunities and services for instructional staff</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results July, 2010</b>
<b>3.1</b> <i>Continue NCWISE training</i>	<i>*NCWISE/SIMS Coordinator *NCWISE Data Managers</i>	<i>*NCWISE/SIMS Coordinator</i>	<i>To Be Determined</i>	<i>Local Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>Record of trainings</i>	



Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line	Method of Evaluation	Evaluation Results July, 2010
<b>3.2</b> <i>Increase technical support (adding 1 technician per year)</i>	<i>*4 additional technicians</i>	<i>*Senior Director for Technology *Superintendent *Chief Finance Officer</i>	<i>app. \$45,000 per year</i>	<i>Local Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>AMTR</i>	
<b>3.3</b> <i>Ensure continued technology training and K-12 teacher support</i>	<i>* 2 Instructional Facilitators</i>	<i>*Senior Director for Technology *Chief Finance Officer</i>	<i>\$100,000 per year</i>	<i>Local Funds</i>	<i>2009-2013 To be reviewed annually</i>	<i>AMTR</i>	
<b>Objective 4: Provide and sustain comprehensive security measures</b>							
Strategy	Resources Needed (Human & Material)	Person(s) Responsible	Budget Needs	Funding Sources	Time-line	Method of Evaluation	Evaluation Results July, 2010
<b>4.1</b> <i>Evaluate, create, and/or revise school security policies as needed</i>	<i>*HCPS Technology Committee *School Board *Superintendent</i>	<i>*Senior Director for Technology</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>Records of Policy Planning Meetings Approval of New Board Policies</i>	

<b>Objective 5: Maintain budgetary process to efficiently address attainment of resources and alignment with priorities to maximize student achievement</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results July, 2010</b>
<b>5.1</b> <i>Utilize technology to continuously improve the financial planning and budgetary process (paperless AS400, new time management system, and other collaboration tools)</i>	<i>*Finance Department *Online data collection resources *Bookkeeper *Technology Committee *FirstClass conference folders</i>	<i>*Senior Director for Technology *Chief Finance Officer</i>	<i>None</i>	<i>None</i>	<i>2009-2013 To be reviewed annually</i>	<i>Records of Policy Planning Meetings Approval of New Board Policies</i>	
<b>Objective 6: Connect to a common educational network</b>							
<b>Strategy</b>	<b>Resources Needed (Human &amp; Material)</b>	<b>Person(s) Responsible</b>	<b>Budget Needs</b>	<b>Funding Sources</b>	<b>Time-line</b>	<b>Method of Evaluation</b>	<b>Evaluation Results July, 2010</b>
<b>6.1</b> <i>Connect to a common Educational Backbone using a telecommunications circuit to enhance educational opportunities by the most efficient means.</i>	<i>*High Speed connection to the North Carolina Research and Education Network *Technical support personnel</i>	<i>*Senior Director for Technology *Superintendent *NC DPI</i>	<i>\$25,000</i>	<i>To be paid for by NC DPI with fund granted by the General Assembly to provide school connectivity</i>	<i>Beginning January 2008  This is an ongoing state initiative and will continue throughout this plan.</i>	<i>Observation Document usage logs that will be provided to the LEAs</i>	

## Appendix A

### Local Education Agency (LEA) Technology Plan Policy, Procedure, & Guidelines Implementation Chart

<b>Policies, Procedures, &amp; Guidelines</b> (Policies should be translated into predominant languages of students and parents)	<b>LEA Policy Code or Procedure</b>	<b>LEA Date of Adoption, Implementation or Revision</b>
<b><i>Policies Required</i></b>		
A. Materials Selection Policy (GS §115c-98(b))	Policy 627	October 8, 2007
B. Disposal of Equipment / Replacement of Obsolete Equipment (GS §115c-518)	Policy 555	September 16, 2002
C. Hardware and Software Procurement (GS § 115c-522, 115c-522.1)	Policy 545	January 18, 2000
D. Copyright Policy (PL §94-553, 90 Stat. 2541)	Policy 624	February 4, 2004
E. Acceptable Use Policy (PL §106-554)	Policy 630	July 14, 2003
F. Equipment/Materials Donation Policy (GS §115C-518)	Policy 520	September 13, 1999
G. Data Privacy Policy (20 U.S.C. § 1232g; 34 CFR Part 99 (FERPA))	Policy 440	August 11, 2003
H. Inventory Control Policy (GS §115c-539, 115c-102.6A-C(5))	Policy 510	July 8, 2002
I. Access to Services Policy (GS §115c-106)	Policy 621	December 12, 2005
J. Student Discipline and Liability Policy (GS § 115C-391, 115C-398)	Policy 450	October 13, 2003
K. Remote Access Policy (GS §147-33.111)	Policy 630	December 12, 2005
L. Virus Protection Policy (GS §147-33.111)	Policy 630	December 12, 2005
M. NC WISE ID and Password Workstation Policy (GS § 147-33.111)	Policy 766 and P766	December 12, 2005
N. Security Awareness Policy (GS §147-33.111)	Policy 630	December 12, 2005
O. Network Security Policy (SBE EEO-C-018, SB 991, 2004)	Policy 630	December 12, 2005
P. Advertising and Commercialism Policy (GS §115c-98)	Policy 445	September 13, 1999
<b><i>Procedures</i></b>		
A. Hardware and Software Deployment	Policy 545  Hardware/ Software Approval Procedure	January 18, 2000  August 2008

B. Equipment maintenance and repairs	Procedure	September 27, 2005
C. Outdated Resources and Equipment Replacement	Procedure	September 27, 2005
D. Disaster Recovery of Data and Hardware	Procedure	November 1, 2005
E. Administration of Online Courses	Procedure	September 27, 2005
F. Request for Prior Approval of Instructional Material	Policy 624	February 4, 2004
<b>Guidelines</b>		
A. Policy Translation	Guideline	September 27, 2005
B. Web Site Development	631 and P631	December 12, 2005
C. Instructional Use of Videos	Policy 624	February 4, 2004
D. Development of Online Resources	Policy 631 and P631	December 12, 2005
E. Email Guidelines	Guideline	September 27, 2005

## Appendix B

### Budget Year 2009-2010

Item	Type	Per Unit Cost	Number of Units Purchased	Total Annual Unit Cost	Erate %	Lease Cycle	Primary Funding	Secondary Funding	Primary Goal	Secondary Goal	Primary User	Secondary User
Desktop computers	Hardware	\$762.91	500	\$381,455.00	0.00%		Capitol Outlay	District Technology Fund	21st Century Systems		Student	
Laptop Computers	Hardware	\$1,200.00	3	\$3,600.00	0.00%		Other	District Technology Fund	Globally Competitive Students		Teacher	
Presentation Hardware	Hardware	\$30,000.00	1	\$30,000.00			Other		Globally Competitive Students		Teacher	School Administration
PDA's and Digital Cameras	Hardware	\$2,000.00	1	\$2,000.00			District Technology Fund	Other	Globally Competitive Students		School Administration	Teacher
Assistive Devices	Hardware	\$30,000.00	1	\$30,000.00			Other		Globally Competitive Students		Student	Teacher
Network Data Switches	Hardware	\$2,000.00	10	\$20,000.00			PRC 15		Healthy and Responsible		Student	Teacher
Mobile Laptop Lease	Hardware	\$348.25	500	\$174,127.00		3 years	PRC 15		Healthy and Responsible		Student	Teacher
Metro-E Router Lease	Hardware	\$36,884.00	1	\$36,884.00			District Technology Fund		21st Century Systems		Student	Teacher
Network File Servers	Hardware	\$5,000.00	9	\$45,000.00			PRC 15		21st Century Systems		Student	Teacher
Computer Upgrades to run Vista	Hardware	\$270,000.00	1	\$270,000.00			District Technology Fund	PRC 15	21st Century Systems		Student	Teacher
Windows XP to Vista Upgrade for the District	Software	\$90,000.00	1	\$90,000.00			District Technology Fund		21st Century Systems		Student	Teacher
Office 2007 License	Software	\$51.84	500	\$25,920.00	0.00%		District Technology Fund		Globally Competitive Students		Student	Teacher
EduSoft	Software	\$50,000.00	1	\$50,000.00			Other		Globally Competitive Students		Teacher	School Administration
Internet Content Filter	Software	\$11,500.00	1	\$11,500.00			District Technology Fund		Healthy and Responsible		Student	District Administration

Item	Type	Per Unit Cost	Number of Units Purchased	Total Annual Unit Cost	Erate %	Lease Cycle	Primary Funding	Secondary Funding	Primary Goal	Secondary Goal	Primary User	Secondary User
First Class Email and RWD	Software	\$13,300.00	1	\$13,300.00			District Technology Fund		Leadership		Teacher	School Administration
Novell Network Operating System	Software	\$30,000.00	1	\$30,000.00			District Technology Fund		Leadership		Student	Teacher
World Book Encyclopedia	Software	\$7,500.00	1	\$7,500.00			District Technology Fund		Globally Competitive Students		Student	Teacher
Metro E	Connectivity	\$207,882.60	1	\$207,882.60	71.00%		Erate	Other	21st Century Systems		Student	Teacher
Broadband	Connectivity	\$63,060.00	1	\$63,060.00	71.00%		Erate	Other	21st Century Systems		Student	Teacher
Telephone Local	Connectivity	\$66,144.01	1	\$66,144.01	71.00%		Erate	Other	21st Century Systems		School Administration	District Administration
Telephone LD	Connectivity	\$5,737.56	1	\$5,737.56	71.00%		Erate	Other	21st Century Systems		District Administration	School Administration
Cell Phone	Connectivity	\$51,108.00	1	\$51,108.00	71.00%		Erate	Other	21st Century Systems		District Administration	School Administration
ISDN	Connectivity	\$6,206.40	1	\$6,206.40	71.00%		Erate	Other	21st Century Systems		District Administration	
Intel	Staff Development	\$20,000.00	1	\$20,000.00			EETT		21st Century Professionals		Teacher	Student
Network Cabling	Wiring	\$115.00	100	\$11,500.00			District Technology Fund		21st Century Systems		Student	Teacher
NovaNet	Other	\$40,000.00	1	\$40,000.00			Other		Globally Competitive Students		Student	Teacher
Staff ID Systems	Other	\$3,500.00	1	\$3,500.00			Other		Healthy and Responsible		District Administration	Teacher
Workshop and Conferences	Staff Development	\$10,000.00	1	\$10,000.00			District Technology Fund		Leadership		Teacher	School Administration

Item	Type	Per Unit Cost	Number of Units Purchased	Total Annual Unit Cost	Erate %	Lease Cycle	Primary Funding	Secondary Funding	Primary Goal	Secondary Goal	Primary User	Secondary User
Media Publications	Other	\$50,000.00	1	\$50,000.00			Other		Leadership		District Administration	
Community Partnerships and Learning Centers	Other	\$2,000.00	1	\$2,000.00			Other		Leadership		District Administration	Student
Instructional Technology Personnel	Other	\$50,000.00	2	\$100,000.00			District Technology Fund	Other	21st Century Professionals		Teacher	Student
Additional Technician	Other	\$45,000.00	1	\$45,000.00			District Technology Fund		21st Century Systems		Teacher	Student
<b>2009-2010 Total Budget Expenditures</b>				<b>\$1,903,424.57</b>								

## Budget Year 2010-2011

Item	Type	Per Unit Cost	Number of Units Purchase	Total Annual Unit Cost	Erate %	Lease Cycle	Primary Funding	Secondary Funding	Primary Goal	Secondary Goal	Primary User	Secondary User
Desktop computers	Hardware	\$762.91	300	\$228,873.00	0.00%		Capitol Outlay	District Technology Fund	21st Century Systems		Student	Teacher
Laptop Computers	Hardware	\$1,200.00	3	\$3,600.00	0.00%		Other	District Technology Fund	Globally Competitive Students		Teacher	
Presentation Hardware	Hardware	\$30,000.00	1	\$30,000.00			Other		Globally Competitive Students		Teacher	School Administration
PDA's and Digital Cameras	Hardware	\$2,000.00	1	\$2,000.00			District Technology Fund	Other	Globally Competitive Students		School Administration	Teacher
Assistive Devices	Hardware	\$30,000.00	1	\$30,000.00			Other		Globally Competitive Students		Student	Teacher
Network Data Switches	Hardware	\$2,000.00	50	\$100,000.00			PRC 15		Healthy and Responsible		Student	Teacher
Metro-E Router Lease	Hardware	\$36,884.00	1	\$36,884.00			District Technology Fund		21st Century Systems		Student	Teacher
Network File Servers	Hardware	\$5,000.00	2	\$10,000.00			PRC 15		21st Century Systems		Student	Teacher
Computer Upgrades to run Vista	Hardware	\$150,000.00	1	\$150,000.00			District Technology Fund	PRC 15	21st Century Systems		Student	Teacher
Windows Vista Licenses	Software	\$15,000.00	1	\$15,000.00			District Technology Fund		21st Century Systems		Student	Teacher
Office 2007 License	Software	\$51.84	50	\$2,592.00	0.00%		District Technology Fund		Globally Competitive Students		Student	Teacher
EduSoft	Software	\$50,000.00	1	\$50,000.00			Other		Globally Competitive Students		Teacher	School Administration
Internet Content Filter	Software	\$11,500.00	1	\$11,500.00			District Technology Fund		Healthy and Responsible		Student	District Administration
First Class Email and RWD	Software	\$13,300.00	1	\$13,300.00			District Technology Fund		Leadership		Teacher	School Administration
Novell Network Operating System	Software	\$30,000.00	1	\$30,000.00			District Technology Fund		Leadership		Student	Teacher



Item	Type	Per Unit Cost	Number of Units Purchase	Total Annual Unit Cost	Erate %	Lease Cycle	Primary Funding	Secondary Funding	Primary Goal	Secondary Goal	Primary User	Secondary User
World Book Encyclopedia	Software	\$7,500.00	1	\$7,500.00			District Technology Fund		Globally Competitive Students		Student	Teacher
Metro E	Connectivity	\$207,882.60	1	\$207,882.60	71.00%		Erate	Other	21st Century Systems		Student	Teacher
Broadband	Connectivity	\$63,060.00	1	\$63,060.00	71.00%		Erate	Other	21st Century Systems		Student	Teacher
Telephone Local	Connectivity	\$66,144.01	1	\$66,144.01	71.00%		Erate	Other	21st Century Systems		School Administration	District Administration
Telephone LD	Connectivity	\$5,737.56	1	\$5,737.56	71.00%		Erate	Other	21st Century Systems		District Administration	School Administration
Cell Phone	Connectivity	\$51,108.00	1	\$51,108.00	71.00%		Erate	Other	21st Century Systems		District Administration	School Administration
ISDN	Connectivity	\$6,206.40	1	\$6,206.40	71.00%		Erate	Other	21st Century Systems		District Administration	
Intel	Staff Development	\$20,000.00	1	\$20,000.00			EETT		21st Century Professionals		Teacher	Student
Network Cabling	Wiring	\$115.00	100	\$11,500.00			District Technology Fund		21st Century Systems		Student	Teacher
NovaNet	Other	\$40,000.00	1	\$40,000.00			Other		Globally Competitive Students		Student	Teacher
Staff ID Systems	Other	\$3,500.00	1	\$3,500.00			Other		Healthy and Responsible		District Administration	Teacher
Workshop and Conferences	Staff Development	\$10,000.00	1	\$10,000.00			District Technology Fund		Leadership		Teacher	School Administration
Media Publications	Other	\$50,000.00	1	\$50,000.00			Other		Leadership		District Administration	
Community Partnerships and Learning Centers	Other	\$2,000.00	1	\$2,000.00			Other		Leadership		District Administration	Student
Instructional Technology Personnel	Other	\$50,000.00	2	\$100,000.00			District Technology Fund	Other	21st Century Professionals		Teacher	Student
Additional Technician	Other	\$45,000.00	1	\$45,000.00			District Technology Fund		21st Century Systems		Teacher	Student
<b>2010-2011 Total Budget Expenditures</b>				<b>\$1,403,387.57</b>								

## Appendix C

Network Diagrams kept on file.