

**ORANGE COUNTY  
BOARD OF EDUCATION**

**AGENDA ITEM ABSTRACT**

**Meeting Date:** April 16, 2012

**AGENDA ITEM No.** 12-04-(2)-08

**ACTION ITEM: (Y/N)** Y

**SUBJECT:** State Technology Plan Approval - 2012-2014

**INFO. CONTACT:** Angie Veitch **PHONE:** 919-245-4100

**ATTACHMENTS:** 1. REVISED Orange County Schools Technology Plan 2012-2014.

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**PURPOSE:** To seek approval for the Orange County Schools Technology Plan for 2012-2014.

**BACKGROUND:** In accordance with state and federal laws, in order to receive federal e-rate funding, each LEA (and state) must develop a Technology Plan to guide budgets, plan for equipment purchases, review network needs and establish technology professional development for the district.

The district Media & Technology Advisory Committee (MTAC) was charged with developing a two-year technology plan that will serve as a technology blueprint for the district. During the first meeting of the committee an outline of the State template and a district Tech Plan website were introduced. These resources were used to communicate with the committee and to house documents for developing the new 2012-2014 Orange County Schools Technology Plan. MTAC members reviewed the five North Carolina State Board Technology goals, and over the course of several meetings developed a draft of the plan. On March 15 the committee met, reviewed, edited and approved the final document for Board approval.

For each of the five areas listed below there is a narrative, specific goals and a method for evaluating whether we achieved these goals.

1. Statewide Shared Services Model
2. Universal Access to Personal Teaching and Learning Devices
3. Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks
4. Statewide Model of Technology Enabled Professional Development
5. 21st Century Leadership for All Schools and Districts

The plan is due to the Department of Public Instruction upon approval.

During the March 19, 2012 meeting, the Board reviewed the proposed two year technology plan. The board recommended several revisions associated with the plan's dates and timetables. The attached plan has been revised as requested by the board. Revisions are shown in bold.

**FINANCIAL IMPACT:** To be determined.

**RECOMMENDATION:** The Superintendent recommends the Board of Education approve the district Technology Plan for 2012-2014.

# **ORANGE COUNTY SCHOOLS TECHNOLOGY & MEDIA PLAN**

## **2012-2014**



**ORANGE COUNTY SCHOOLS**

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**Orange County Schools  
Technology Planning Committee/MTAC**

Kristen Bedell	AIG Teacher
Jamie Borland	MS Math Teacher
Connie Brimmer	Elementary Principal
Claire Capps	MS Math Teacher
Mitch Cox	HS English Teacher
Kristi Dameron	Elementary Literacy Coach
Jeff Faulkner	MS Science Teacher
Matt Fry	MS Technology Facilitator
Joyce Gilbert	MS Literacy Coach
Lynne Gronback	HS Science Teacher
Armond Hankins	HS Principal
Patricia Harris	CTE and Arts Director
Matt Jorgenson	District Technician III
Amy Kostrewa	HS English Teacher
Mollie Langston	Elementary Literacy Coach
Christina Lowman	Elementary Teacher
Kim McColman	Elementary Technology Facilitator
Ryan Miller	Instructional Technology Coordinator
Parvis Mollahssani	Network Manager
Denise Morton	Chief Academic Officer
Katie Phelps	Elementary Teacher
Anne Purcell	MS Principal
Tracy Shopmyer	Elementary Media Specialist
Vickie Smith	Literacy/Professional Development Director
Greg Thoyre	HS CTE Teacher
Tina Walker	HS Technology Facilitator
Steven Weber	Director of Secondary Education
Julie White	MS Science Teacher

**Orange County Schools Technology Plan  
2012-2014**

**Vision Statement**

*The students and staff of the Orange County School district will be prepared for the 21st century. All will be committed to enable students to use technology as a means by which we create and support self-directed learners, complex thinkers, quality producers, collaborative workers and community contributors. Technology will play an integral part in preparing our students to be productive and competitive citizens in a global economy.*

**Orange County Schools**  
**Strategic Priorities**  
2012 - 2014

Orange County Schools (OCS) recognizes that learning occurs beyond the brick and mortar of the school building. It also occurs in the environment that surrounds each student 24/7. Equal access to technology is critical to the success of our students. The integration of digital tools, along with applying knowledge to communicate, collaborate, analyze, create, innovate and solve problems will prepare our students not only to be career and college ready, but also to have the skills necessary to compete in a global economy.

The district has taken advantage of the free network services offered by Microelectronics Center of North Carolina (MCNC), which, starting last June and completing in September, performed an in-depth analysis of the district network and created a report containing network information and strategies for continued growth. Orange County Schools has taken advantage of the free content filtering (ZScaler) and firewall services (Cisco ASA appliance) offered through the Department of Public Instruction (DPI), MCNC, and Information Technology Services (ITS). (Shared Services.)

Equal Internet and computer accessibility for all students continues to concern the district. We have established two collaborative ventures to this end to date: first, a collaborative venture with Century Link to provide reduced rates on home Internet access for our low income students; and second, a venture with the Kramden Institute that offers a free computer to any household without one. (Universal access)

As textbook funds have dwindled and with mandated online testing on the horizon, the district must respond. The district now has the charge of providing a solution for both of these impending issues.

Currently, OCS has a 3:1 computer to student ratio and is evaluating the implementation of a 1:1 computer initiative for its students. Issues that are to be considered before the implementation of a computer for each student are: What are the benefits for students? Is there data to support the expense of a 1:1 program? What type of staff development is necessary for teachers? What are the additional costs for infrastructure upgrades and technical support of the laptops? What is the cost of textbooks vs ebooks/eresources for our students? How would they access these resources and other curriculum resources 24/7? (Access to digital equipment and resources)

The district technology department is offering over 26 professional development sessions for faculty and staff in the 2011-2012 school year to enhance knowledge and ease of use of digital tools in lessons, classrooms and school communication across the district. Each summer, the district offers a 3-day technology conference (*Catch the Wave*), where teachers are exposed to various digital programs and teaching methods to enhance their lessons. Individual schools also offer targeted professional development to reflect the needs of their staff.

Along with the staff development offered by the technology department, the Common Core and More team is also embedding how and what type of technology to use with their Common Core training for all staff members. (21st century professional development)

21st century leadership is recognized by all as the catalyst of 21st century students, staff and schools. Along with the planning and training for the common core curriculum, the Race to the Top funds in Orange County were used to purchase tablets for all administrators in the district. Some of the uses of these mobile devices are that they allow the administrators to complete teacher evaluations, create videos of what they are seeing in classrooms, respond to e-mails while out in the building, and take digital notes. Additionally, these options provide demonstrable illustrations of principals being leaders who authentically model the digital technology use they would like to see in the classroom. The district is also modeling responsible citizenship through promoting more green technologies. Utilizing a program to shut down all non-essential computers at 7:00 pm to save energy and by working toward the goal of district-wide paperless meetings to conserve natural resources (and also reduce costs) are two of the strategies that the district employs to demonstrate environmental responsibilities. If a 1:1 digital device program were instituted, there would also be the reduction in paper copies of materials being handed out in classrooms across the district. (21st Century leadership)

## Strategic Priority 1: A Statewide Shared Services Model

### *Current Status and Moving Forward*

Orange County Schools (OCS) has taken advantage of the free Internet, Internet filtering and firewall offered through the Department of Public Instruction, NCREN/MCNC and ITS. As more cloud and other services become available, OCS will investigate the services and the cost savings these offerings would afford the district. Less money spent on network services, servers, and security programs means more money can be allocated for providing infrastructure equipment and wiring, digital devices and other digital instructional needs of the district.

The district is currently virtualizing servers at all of our schools. Savings should be realized by having fewer replacement servers to purchase. The district will also consider a proposed state “highly reliable, highly available” server infrastructure solution when it becomes available. Currently the district maintains 56 servers and not having to update, manage or replace these would allow the district considerable savings.

Cloud offerings with reduced costs for many of the software programs currently used in the district are also being anticipated and welcomed. Consortium style purchasing allows for not only a cheaper price but often more services than the district could previously afford.

**If** the district **moves** towards a computer for each student, the need for a learning management system (LMS) for all staff **would** be imperative. Currently the district pays for an off site Moodle (a LMS system) for teachers wanting to use the blended learning model. With syllabuses, resource materials, assessments, social networking tools and a grade book program, Moodle allows teachers to have one location for all classroom materials and at any time parents can see what homework has been assigned and all the materials available to assist students with their class work and homework. A statewide K12 LMS system would allow for a Learning Object Repository (LOR), collaborative and communication tools, and an identity management system for the district. These additional features would allow teachers resources at their fingertips.

Google education has allowed the district to recognize savings by not purchasing Microsoft software, maintaining email servers, backup servers, and storage devices for faculty, staff and students.



<b>Alignment to Other Plans and Initiatives: Strategic Priority 1: A Statewide Shared Services Model</b> <b>Orange County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...</b>	
<b>ACRE</b>	Participate in the shared services model offerings to better prepare for the transition to online assessments, digital textbooks and universal access to personal devices.
<b>Career and College Ready, Set, Go!</b>	Put more digital devices in the hands of students and teachers to ensure that our students will be better prepared for life after high school.
<b>Race to the Top Local and State Scopes of Work</b>	Create a roadmap for teachers to move their lessons to the Common Core Standards.
<b>Other LEA initiatives/plans</b>	Participate in NCFALCON and other state offered professional development to move our teachers toward daily assessments of what students understand and where they need remediation once a lesson has been taught.

<b>1. Statewide Shared Services Model</b>				
<b>Suggested Goals/Targets</b>	<b>Year 1 July 1, 2012 – June 30, 2013</b>	<b>Year 2 July 1, 2013 – June 30, 2014</b>	<b>Yearly Evaluation</b>	
			<b>Evaluation Method(s)</b>	<b>DPI Use</b>
<b>Provide equitable and additional access to mobile devices</b>	<b>Investigate a 1:1 project for all Orange County Schools students in grades 6-12 with the move of laptop carts into Grade 3 across the district.</b>  Director of Media &	<b>Investigate a 1:1 project for all Orange County Schools students in grades 4-5.</b>  Director of Media &	<b>Provide the results of the investigation of a 1:1 project.</b>  .	

	Technology, Technology/Textbook Committee	Technology, Technology/Textbook Committee		
<b>Provide equitable and additional access to digital resources</b>	Review with Exceptional Children's department the individual needs of each student when considering a 1:1 device for them.  Technology/Textbook Committee, Director of Media & Technology	Survey K-2 teachers concerning what would be the age appropriate use of digital devices in their classrooms; develop a plan detailing the potential use of technology in the K-2 classroom and defining digital resources necessary for this plan.  Director of Media & Technology, Technology/Textbook Committee	Year 1: Provide review of individual students special needs concerning technology.  Year 2: Provide survey results and a copy of the plan to provide K-2 with digital devices and resources.	
<b>Reduce operating costs by facilitating a more strategic budgeting model</b>	Evaluate <b>the potential</b> cost savings by using shared services offered by the state.  Chief Academic Officer, Chief Operating Officer, Finance Director, Director of Media & Technology	Continue to evaluate <b>potential</b> by shared services offered by the state.  Chief Academic Officer, Chief Operating Officer, Finance Director, Director of Media & Technology	Year 1 and 2: Provide information on <b>potential</b> cost savings by <b>using shared state services.</b>	
<b>Facilitate a more strategic budgeting model utilizing blended funding and reducing isolated programmatic spending</b>	Review all budget areas to determine where funding <b>could possibly</b> be made available for a <b>potential</b> 1:1 laptop program and <b>possible budget</b> plan to sustain a 1:1 program.  Chief Academic Officer, Chief Operating Officer,	Continue to review all budget areas to determine where funding <b>could possibly</b> be made available for a <b>potential</b> 1:1 laptop program and <b>possible budget</b> plan to sustain a 1:1 program.  Chief Academic Officer, Chief Operating Officer,	Year 1 and 2: Provide <b>possible</b> budget <b>options</b> showing a <b>potential</b> blended funding <b>option</b> for a 1:1 laptop program.	

	Finance Director, Director of Media & Technology	Finance Director, Director of Media & Technology		
<b>Promote/maintain innovative funding model by utilizing NCEd Cloud offerings and alternatives</b>	Investigate and utilize offerings and cost savings made available to the NCEd Cloud  Director of Media & Technology	Continue to investigate and utilize offerings and cost savings made available to the NCEd Cloud  Director of Media & Technology	Year 1 and 2: Minutes of meetings, emails and implementation (when appropriate) of Cloud offerings.	
<b>Provide security and content filtering in accordance with the Children's Internet Protection Act (CIPA).</b>	Maintain virus protection and Internet filtering to meet CIPA requirements.  Director of Media & Technology	Continue to maintain virus protection and Internet filtering to meet CIPA requirements.  Director of Media & Technology	Year 1 and 2: Report on filtering effectiveness of OCS network; virus protection contract.  Year 1: Device and software installed for filtering of network. Virus protection contract.	
	Provide Internet Safety and Cyberbullying awareness sessions for all students.  Director of Media & Technology	Provide Internet Safety and Cyberbullying awareness sessions for all students.  Director of Media & Technology	Collect the plans from each school of how they provide Internet Safety and Cyberbullying awareness.	

## **Strategic Priority 2: Universal Access to Personal Teaching and Learning Devices**

### ***Current Status and Moving Forward***

Orange County Schools (OCS) believes that universal access to personal teaching and learning devices is the direction to which the district needs to aspire. To realize this vision for our district, OCS will provide **new digital devices** to all teachers **within the next two years**. Administrators across the district were issued Lenovo Thinkpads in the fall of 2011 to allow them mobility for evaluations, email and collecting data and media.

Currently, we are evaluating our wireless and our wide area networks to ensure the infrastructure and bandwidth are able to support the **future needs of the district**.

Much research has been commissioned and completed on the outcomes and effectiveness of one-to-one implementations of personal teaching and learning devices. Results show that:

- Students tend to be more engaged in schools that have implemented one-to-one initiatives (Bebell & Kay).
- In schools that have implemented one-to-one programs, teacher and student use of technology increases dramatically across the curriculum (Bebell & Kay).
- “Students become better researchers, have access to ‘expanded’ classroom, and benefit from 'systemic and ubiquitous use of technology, as opposed to idiosyncratic and sporadic use of technology” (Bebell & O'Dwyer).
- Students become better collaborators (Bebell & Kay).
- Teaching fundamentally shifts, in particular, teaching strategies, curriculum delivery, and classroom management (Bebell & Kay).
- Student achievement is positively affected, especially in reading and math (Shapely et al).
- “Technology immersion requires a comprehensive approach that transforms the school culture, changes the nature of teaching and learning, and expands the education boundaries of the schools and classrooms.” (Shapely et al).
- Professional development is the keystone to successful implementation (Drayton et al).

Clearly, **technology** can greatly foster the 21st century skills necessary for college and career-ready learners.

<p><b>Alignment to Other Plans and Initiatives:</b>  <b>Strategic Priority 2: Universal Access to Personal Teaching and Learning Devices</b>  <b>Orange County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...</b></p>
<p><b>ACRE</b></p> <p>Utilize NCDPI's professional development in conjunction with the local professional development to move to the Common Core curriculum and to help teachers to develop and interpret assessments in order to enhance their curriculum. A special emphasis will be given to formative assessments and using these daily so as to derive data to drive lessons.</p>
<p><b>Career and College Ready, Set, Go!</b></p> <p>Implement more virtual and online learning experiences so every child can have individualized learning options.  Increase the use of project based and blended learning to enhance the inquiry based lessons that include communication and collaboration.</p>
<p><b>Race to the Top Local and State Scopes of Work</b></p> <p>All Orange County Schools administrators will have tablet devices to use for teacher evaluations, emails, gathering information and artifacts and any of their other responsibilities.</p>
<p><b>Other LEA initiatives/plans</b></p> <p>All Orange County Schools teachers will <b>have their digital devices refreshed within the next two years.</b></p>
<p><b>Other LEA initiatives/plans</b></p>

<b>Priority 2: Universal Access to Personal Teaching and Learning Devices</b>				
<b>Suggested Goals/Targets</b>	<b>Year 1 July 1, 2012 – June 30, 2013</b>	<b>Year 2 July 1, 2013 – June 30, 2014</b>	<b>Yearly Evaluation</b>	
			<b>Evaluation Method(s)</b>	<b>DPI Use</b>
<b>Develop a comprehensive sustainable LEA plan for universal access.</b>	A project management plan for sustainability of current technology across the district will be developed.  Director of Media & Technology	A project management plan for sustainability of current technology will <b>reviewed</b> .  Director of Media & Technology	<b>Year 1 &amp; 2: Project plan for sustaining current technology.</b>	
<b>Communicate your plan to all stakeholders.</b>	Orange County Schools (OCS) will provide parent/student meetings to educate the community about converting to digital learning environments. Information will also be available through school websites, news letters, district website, etc.	A Communication Plan will be created to inform all stakeholders of technology plans or revisions.	Years 1 and 2: The Communication Plan for administration, schools and community; website address, parent/student meeting agendas, student and Board meeting agendas. Sample materials handed to students and parents.	
<b>Utilize Personal Learning Devices to promote student owned learning.</b>	Increase use of student response systems/software across the district.  Increase and evaluate the use of the SMART Board as an	Continue to implement the use of student response systems/software across the district. Continue to increase and	Data collected from McRel Teacher Evaluation tool #4; Teacher survey for technology use; “looks like” rubric shared with all staff; summer technology conference	

	<p>interactive tool for the students.</p> <p>Director of Media &amp; Technology, Instructional Technology Coordinator</p>	<p>evaluate the use of the SMART Board as an interactive tool for the students.</p> <p>Director of Media &amp; Technology, Instructional Technology Coordinator</p>	<p>data; data from professional development program (OCStorm) as to how many staff members have been trained on student response systems/software and other digital devices; review of teacher evaluations of professional development.</p>	
<p><b>Other LEA Initiatives/Plans</b></p>	<p>Teacher computers will be refreshed.</p> <p>Director of Media &amp; Technology</p>	<p>New staff will receive computers.</p> <p>Director of Media &amp; Technology</p>	<p>Year 1 &amp; Year 2 Inventories will evidence new computers for staff members.</p>	

### **Strategic Priority 3: Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks**

#### ***Current Status and Moving Forward***

Some of the digital resources being used in OCS currently are Discovery Education, Nettekker, NCWISE Owl, Learn NC, SAS in Schools, Britannica, and open source resources such as the Kahn Academy and Geogebra.

Subject/grade level meetings will be held to research digital resources available and to create a repository of these resources to support the curriculum for each area.

Teachers and students can benefit when using digital resources by the availability to primary sources, electronic information for research, media (video) used for the reteaching of lessons and answers to immediate questions that might arise within a lesson.

As more and more syllabus and lessons are placed in a learning management system, digital resources will become imperative. Students will need to have videos and other resources available for lesson review of a concept they might not have understood fully.

Digital data and electronic resources at the finger tips of students have become a necessity in the classroom of the 21<sup>st</sup> Century.



<p><b>Alignment to Other Plans and Initiatives:</b>  <b>Strategic Priority 3: Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks</b>  <b>Orange County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...</b></p>			
<p><b>Career and College Ready, Set, Go!</b></p>			
<p>OCS will enhance the offerings of online education to meet the needs of every student.</p>			
<p><b>Race to the Top Local and State Scopes of Work</b></p>			
<p>OCS will investigate using the Learning Management System, Learning Object Repository and web collaboration tools when they become available through NCCloud. OCS will continue summer and staff day trainings on the new Standard Course of Study. (Common Core and More)</p>			
<p><b>Other LEA initiatives/plans</b></p>			
<p>OCS will investigate the use of ebooks, eresources and etextbooks as resources for the curriculum and create documents of available resources for each subject area.</p>			
<p><b>Other LEA initiatives/plans</b></p>			
<p>OCS will redesign processes and structures to take advantage of the power of technology to improve learning outcomes while making more efficient use of time, budget and staff.</p>			

<b>3: Statewide Access to Digital Teaching and Learning Resources, Including Digital Textbooks</b>				
<b>Suggested Goals/Targets</b>	<b>Year 1 July 1, 2012 – June 30, 2013</b>	<b>Year 2 July 1, 2013 – June 30, 2014</b>	<b>Yearly Evaluation</b>	
			<b>Evaluation Methods(s)</b>	<b>DPI Use</b>
<b>Shift from traditional print and paper-based resources to affordable, current online resources</b>	OCS will investigate and create a list of digital resources available for each curriculum area to replace traditional print materials.  Common Core Teams, Subject Level teams, Director of Media & Technology	OCS will have an annual review and evaluation of digital resources across the curriculum and will update the list of digital resources for each subject area.  Common Core Teams, Subject Level teams, Director of Media & Technology	Year 1: A list of digital resources being used in all subject areas in OCS will be developed.  Year 2: A matrix will be used to evaluate the digital resources being used and the findings will be shared within each subject area.	
<b>Utilize procured resources such as NC WiseOwl, and other open education resources</b>	All staff will be offered professional development on the use of NC WiseOwl and other open education resources  Common Core Teams, Technology Facilitators, Instructional Technology Coordinator, Director of Media & Technology	Continued professional development will be offered on the use of NC WiseOwl and other open educational resources.  Common Core Teams, Technology Facilitators, Instructional Technology Coordinator, Director of Media & Technology	Review OCStorm records of technology CEUs.  Create a resource bank of procured resources for staff, students, and families.	

<p><b>Use digital content aligned specifically to Common Core and NC Essential Standards</b></p>	<p>Digital content will be an integral component of the Common Core and NC Essential Standards curriculum as it is implemented in OCS.</p> <p>Common Core Teams, OCS Administrative team, Instructional Technology Coordinator, Director of Media and Technology</p>	<p>Digital content will continue to be an integral component of the Common Core and NC Essential Standards curriculum as it continues to evolve in OCS.</p> <p>Common Core Teams, OCS Administrative team, Instructional Technology Coordinator, Director of Media and Technology</p>	<p>Year 1: Reviews of the courses created in a learning management system and what resources are being used.</p> <p>Year 2: Individual Growth Plans for teachers and teacher evaluations will reflect the inclusion of digital content.</p>	
<p><b>Ensure equity to digital teaching and learning resources from school to school in your LEA.</b></p>	<p>OCS will maintain digital devices and offer professional development to all staff to ensure digital equity in all schools.</p> <p>Director of Media &amp; Technology</p>	<p>OCS will continue to maintain digital devices and offer professional development to all staff to ensure digital equity in all schools.</p> <p>Director of Media &amp; Technology</p>	<p>Year 1 &amp; 2: Evaluate inventories of devices through the use of the Destiny inventory system. OCSTORM will be used to monitor what Professional development is being offered at all locations and the teacher evaluations of this staff development.</p>	

## **Strategic Priority 4: A Statewide Model of Technology-Enabled Professional Development**

### ***Current Status and Moving Forward***

Orange County Schools recognizes that digital teaching and learning resources are essential to the 21<sup>st</sup> Century classroom in order to ensure college and career readiness for all students. Professional development in software and hardware is offered to all staff throughout the school year. Additionally, professional development is offered to staff during the summer with a technology conference, *Catch the Wave* and the Common Core and More summer training programs. Using technology as a tool for teaching, learning, communication and administrative duties will not only make staff, students and parents more efficient but also more engaged.

Professional development in technology emphasizes the ever-changing digital resources available to teachers and the flexibility teachers must have. Staff must continually evaluate the digital resources they use in order to update lessons.

During the summer of 2011, 17 teachers and administrators from each school in Orange County met to start the transition to the Common Core and NC Essential Standards. These teams learned about the new curriculum, experienced varying pedagogies for teaching the new curriculum and developed a training plan for their schools using the various pedagogies. Blended and project based learning will be a focus for many as the new curriculum is unfolded.

The NCFALCON modules will be completed by all teachers and formative assessments will be a focal point to inform instruction for each teacher. Benchmark assessments for reading, math and science are currently being utilized by the district to give the teachers another snapshot of where their students are in their knowledge of the curriculum taught.

<p><b>Alignment to Other Plans and Initiatives:</b>  <b>Strategic Priority 4: A Statewide Model of Technology-Enabled Professional Development</b>  <b>Orange County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...</b></p>
<p><b>ACRE</b></p> <p>OCS has created and continues to improve on a customized professional development program.  The district will continue to use purchased software-OCSTORM-to monitor, gather data from staff development evaluations, approve credits and track all professional development offered.</p>
<p><b>Career and College Ready, Set, Go!</b></p> <p>The district will continue to increase the use of technology through highlighting and offering professional development that accents technology use in the classroom.</p>
<p><b>Race to the Top Local and State Scopes of Work</b></p> <p>In all Common Core and NC Essential Standards training, technology will be modeled as a tool for instruction.  Professional development for administrators will include how to use a digital device (tablet) for evaluations, communications and documentation.</p>
<p><b>Other LEA initiatives/plans</b></p> <p>Support teachers as they apply 21<sup>st</sup> Century teaching and learning research to promote high student achievement and engagement.</p> <p>Administrators will be provided professional development on the effective use of technology in the classroom and will be provided a “looks like” document to aid them in their evaluating teacher and student technology use.</p>

<b>4: A Statewide Model of Technology-Enabled Professional Development</b>				
<b>Suggested Goals/Targets</b>	<b>Year 1 July 1, 2012 – June 30, 2013</b>	<b>Year 2 July 1, 2013 – June 30, 2014</b>	<b>Yearly Evaluation</b>	
			<b>Evaluation Method(s)</b>	<b>DPI Use</b>
<b>Implement a plan for embedded technology-enabled professional development for teachers and administrators.</b>	Continue to offer the summer technology conference <i>Catch the Wave</i> and embed the use of technology in staff development across all curriculum areas.  Instructional Technology Coordinator, Curriculum and Instruction team	Continue to offer the summer technology conference <i>Catch the Wave</i> and embed the use of technology in staff development across all curriculum areas.  Instructional Technology Coordinator, Curriculum and Instruction team	Workshop descriptions, evaluations of workshops by participants and CEU credits earned within OCSTORM.	
<b>Prepare media specialists and instructional technology facilitators to support digital reform.</b>	Provide professional development for media and technology specialists concerning ebooks, blended learning, project based learning, new digital equipment and pedagogy for using new devices and software.  Instructional Technology Coordinator, Director of Media & Technology	Continue to provide professional development for media and technology specialists concerning ebooks, blended learning, project based learning, new digital equipment and pedagogy for using new devices and software.  Instructional Technology Coordinator, Director of Media & Technology	PLC Meeting Minutes  Monthly meeting agendas and training schedules for media and technology staff	

<p><b>Deliver Common Core and Essential Standards training to teachers using integrated technology as a model for further classroom integration.</b></p>	<p>Continue with the Common Core School Teams meeting in the summer to develop the Common Core and NC Essential Standards professional development for the year</p> <p>District Literacy Coordinator, Director of Secondary Education, Director of Elementary Education, Director of CTE, Instructional Technology Coordinator</p>	<p>Continue with the Common Core School Teams meeting in the summer to develop the Common Core and NC Essential Standards professional development for the year</p> <p>District Literacy Coordinator, Director of Secondary Education, Director of Elementary Education, Director of CTE, Instructional Technology Coordinator</p>	<p>Lesson plans for Common Core Standards Training.</p> <p>PLC Minutes.</p> <p>OCSTORM data and evaluations.</p>
<p><b>Prepare staff for online assessment delivery.</b></p>	<p>Review with staff the use of Thinkgate (benchmark assessment program).</p> <p>Director of Accountability</p>	<p>Review with staff the use of Thinkgate (benchmark assessment program).</p> <p>Director of Accountability</p>	<p>OCSTORM data and evaluations.</p>
<p><b>Prepare students for online assessment delivery.</b></p>	<p>Review with students how to use Thinkgate.</p> <p>Technology Facilitators, Teachers, &amp; Testing Coordinators</p>	<p>Review with students how to use Thinkgate.</p> <p>Technology Facilitators, Teachers, &amp; Testing Coordinators</p>	<p>PLC Minutes</p> <p>Lesson Plans</p>
<p><b>Provide ongoing support and professional development necessary for use of data to inform instruction.</b></p>	<p>All OCS teachers will complete the NCFALCON requirements on formative assessments and have continued</p>	<p>Continued professional development on using data to inform instruction.</p>	<p>OCSTORM evaluations of trainings.</p>

	<p>professional development using EVAAS.</p> <p>Director of Accountability</p>	<p>Director of Accountability</p>		
<p><b>Provide support for teacher and administrator progress and evaluation according to MCREL standards.</b></p>	<p>Continue to discuss the MCREL evaluation standards with all teachers and give them examples of “this looks like” for a matrix.</p> <p>Assistant Superintendent for Human Resources, Director of Media &amp; Technology</p>	<p>Continue to discuss the MCREL evaluation standards with all teachers and give them examples of “this looks like” for a matrix.</p> <p>Assistant Superintendent for Human Resources, Director of Media &amp; Technology</p>	<p>Meeting Agendas</p> <p>OCSTORM data; “looks like” rubric for administration, staff and students.</p>	
	<p>Continue to work with administrators to clarify what they should be looking for in classrooms when using the MCREL evaluation tool</p> <p>Assistant Superintendent for Human Resources, Director of Media &amp; Technology</p>	<p>Continue to work with administrators to clarify what they should be looking for in classrooms when using the MCREL evaluation tool</p> <p>Assistant Superintendent for Human Resources, Director of Media &amp; Technology</p>	<p>Meeting Agendas &amp; Minutes; “looks like” rubric for administration, staff and students.</p>	
	<p>Continue to discuss what the district will be looking for in the evaluations of administrators and central office staff concerning <b>technology skills.</b></p> <p>Chief Academic Officer, Assistant</p>	<p>Continue to discuss what the district will be looking for in the evaluations of administrators and central office staff concerning <b>technology skills.</b></p> <p>Chief Academic Officer, Assistant</p>	<p>Meeting Agendas &amp; Minutes; “looks like” rubric for administration, staff and students.</p>	



	Superintendent for Human Resources	Superintendent for Human Resources		
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**Strategic Priority 5: 21st Century Leadership for All Schools and Districts**

*Current Status/Moving Forward*

OCS administrators were given Thinkpad tablets to enable them to become familiar and to model digital technology use with a highly portable digital device. Though the tablets were purchased to assist administrators when using the MCREL program for teacher evaluations, the secondary reason was to reduce paper costs with paperless meetings and being able to have at their finger tips a device that would allow them to communicate and document no matter where the location.

At the district’s monthly Leadership Meetings all administrators (central office and school based) meet for staff development on various issues. Topics range from cyberbullying to the use of technology and various software that teachers and administrators have available to them. Each month the leadership team is given a “Technology Tidbit” to demonstrate the capabilities of the tablet.

The district has several teams working to evaluate various digital tools - Ebooks, blended and project based learning, 1:1 feasibility, eresources for lessons and how to use technology as a tool for teaching the Common Core Curriculum and the NC Essential Standards.

With the new curriculum, new digital devices, new pedagogies of teaching and the goal of using data to drive instruction, staff will be in a state of continuous evolvment. Making sure we bring all staff along this road will be an imperative role of the district if we are going to ensure that all students in all schools in OCS are Career and College ready. The 2012-2013 school year will present unique challenges for Grade 6-12 administrators. Administrators must monitor the use of the technology in the classroom. How is it being used? Are there enough resources? Are students engaged in their learning? Are lessons created to create active learning or are teachers still the center of the lesson? How do teachers gather and evaluate data concerning their lessons?

Monitoring and administrator leadership **are** essential components for the success **of any educational system**. Standard 4 (facilitating learning) of the teacher evaluation instrument speaks to the effective teacher use of technology. School and district administrators will be able to analyze this data individually or at the school level when evaluating the effectiveness of the digital devices and digital resources used in the classroom.

**Alignment to Other Plans and Initiatives:**  
**Strategic Priority 5: 21st Century Leadership for All Schools and Districts**  
**Orange County Schools will utilize and align with the following key initiatives/plans to reach for the vision and complete the strategic priorities of our plan...**

**ACRE**

OCS will use OCSTORM to continue to regulate and monitor professional development given throughout the district to ensure all staff are capable of using data to inform instructional practice by the frequent use of formative assessments.

**Career and College Ready, Set, Go!**

OCS will implement a Student Survey to determine student evaluations of digital resources and what changes they feel would improve instruction.  
OCS will build upon the Common Core and NC Essential Standards professional development to support digital teaching and learning.

**Race to the Top Local and State Scopes of Work**

OCS will investigate partnering with the NCCloud initiative to provide and support student, teacher, and administrator access to a Learning Management System, Learning Object Repository and web collaboration tools.

**Other LEA initiatives/plans**

OCS will communicate and collaborate with business and community members for input on the skills necessary for students. OCS schools will enlist the community to assist in the development and implementation of plans to ensure that all students are receiving an education that will prepare them for College and Career readiness.

**OCS will continue to review technology requirements to ensure that our students have the digital knowledge for success at the post secondary/college level.**

<b>5: 21st Century Leadership for All Schools and Districts</b>				
<b>Suggested Goals/Targets</b>	<b>Year 1 July 1, 2012 – June 30, 2013</b>	<b>Year 2 July 1, 2013 – June 30, 2014</b>	<b>Yearly Evaluation</b>	
			<b>Evaluation Method(s)</b>	<b>DPI Use</b>
<b>Create and lead a vision for 21st century education</b>	Ensure that all staff is aware of the vision of the OCS Strategic and Technology Plans.  OCS District Leadership Team	Continue to ensure that all staff is aware of the vision of the OCS Strategic and Technology Plans.  OCS District Leadership Team	Posters of the district “vision” for all students and staff will be posted in all schools and reinforced at meetings each year.	
<b>Create 21st century learning cultures</b>	Provide students, teachers and administrators digital tools necessary for creating a digital learning culture.  OCS School Board, OCS Leadership Team	Continue to provide an environment that is conducive to digital learning.  OCS School Board, OCS Leadership Team	Provide the budget document that provides for digital devices and resources.	
<b>Prepare teachers and administrators to lead 21st century learning environments</b>	Provide professional development that promotes project based and blended learning models.  Curriculum and Instruction Team	Continue providing professional development that promotes project based and blended learning models.  Curriculum and Instruction Team	OCSTORM professional development reports of training offerings and evaluations.	
<b>Develop strategic partnerships with community and business to promote 21st</b>	Meet with business and community members to promote and enlist their assistance in the delivery of a 21st	Continue to meet with business and community members to promote and enlist their assistance in the	Programs and dates of the annual meetings with business and community	

<b>century learning.</b>	century education and learning environment.  OCS Leadership Team	delivery of a 21 <sup>st</sup> century education and learning environment.  OCS Leadership Team	partners.
<b>Other LEA Goals:</b>	<b>Review technology/digital skills necessary for students to be successful in college or any post secondary education.</b>	<b>Continue to review technology/digital skills necessary for students to be successful in college or any post secondary education.</b>	<b>Report on technology skills required for college or any post secondary education and how OCS meets these requirements.</b>

**Appendix A: Policies and Procedures  
Orange County Schools Technology Plan  
Policy, Procedure, & Guidelines Implementation Chart**

<b>Policy, Procedure, &amp; Guidelines</b>	<b>LEA Policy Code or Procedure</b>	<b>LEA Adoption, Implementation or Revision Date</b>
<b>Policies Required</b>		
A. Materials Selection Policy including internet resources (GS §115c-98(b))	3200	03/03/2008
B. Disposal of Equipment / Replacement of Obsolete Equipment (GS §115c-518)	8775	11/17/2004
C. Hardware and Software Procurement (GS § 115c-522, 115c-522.1)	9000	10/04/2004
D. Copyright and Plagiarism Policy (PL §94-553, 90 Stat. 2541),	3230	03/03/2008
E. Acceptable Use Policy (PL §106-554)	3225 & 7320	07/07/2011
F. Equipment/Materials Donation Policy (GS §115C-518)	8775	11/17/2004
G. Data Privacy Policy (20 U.S.C. § 1232g; 34 CFR Part 99 (FERPA))	4700	12/06/2004
H. Inventory Control Policy (GS §115c-539, 115c-102.6A-C(5))	8750	11/17/2004
I. Access to Services Policy (GS §115c-106.2)	4020	05/05/2008
J. Online Assessment and Instruction Policy		
K. Advertising and Commercialism Policy (GS §115c-98)	8220	02/05/2007
L. Internet Safety and Ethical Use including Cyberbullying and Harassment (Protecting Children in the 21 <sup>st</sup> Century Act, CIPA, FERPA, GS 115C-407)	3532	04/06/2009
M. Employee Use of Social Networking Sites	3224/7319	07/07/2011
<b>Procedures</b>		
A. Hardware and Software Deployment		
B. Equipment maintenance and repairs	6515 & 9200	08/01/2005
C. Outdated Resources and Equipment Replacement	8750	03/03/2008
D. Disaster Recovery of Data and Hardware	3220	03/03/2008
E. Administration of Online Courses	3226	09/08/2009
F. Administration of Online Assessment		

<b>Guidelines</b>		
A. Policy Translation		
B. Use of Digital Media and Resources		
C. Instructional Use of Videos	3230	03/03/2008
D. Development of Online Resources		