

ORANGE COUNTY  
BOARD OF EDUCATION

AGENDA ITEM ABSTRACT

Meeting Date: August 13, 2012

AGENDA ITEM No. 12-08-14

ACTION ITEM: (Y/N) Y

SUBJECT: School System Goals

INFO. CONTACT: G. Patrick Rhodes PHONE: 919-732-8126

- ATTACHMENTS:
1. Proposed Performance Goals for 2012-2013.
  2. *Striving for Excellence* Report on District Goals - PowerPoint.
  3. Progress Report on the Board of Education's 2012 System Performance Goals.

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**PURPOSE:** The purpose of this agenda item is to provide the Board of Education an opportunity to establish district goals for the 2012-2013 school year.

**BACKGROUND:** As part of its continuous improvement efforts, the board requested the superintendent and staff develop several "big picture" system wide goals for 2012. Three major goals all centered around student achievement were developed and approved. In broad terms, these goals are aligned with state and national priorities and the Orange County Schools Strategic Plan. For the 2012-2013 school year, the proposed goals have been revised to reflect progress and a new goal has been added related to technology initiatives.

The 2012-2013 performance goals place emphasis in four areas: 1. Science, Technology, Engineering and Mathematics (STEM); 2. Greater rigor and challenging coursework; 3. College and career readiness and 4. Conversion to the digital classroom. These goals are attached.

If approved, staff will continue to develop specific strategies for implementation of the goals.

**FINANCIAL IMPACT:** The estimated financial impact of implementing the goals is summarized below.

1. Engineering is Elementary	\$ 286,542
2. Leadership Academy at Efland-Cheeks	68,000
3. Digital Conversion (Includes student and teacher laptops, wireless infrastructure upgrades, student back packs and protective cases)	4,785,985 (over 5 years)
4. Rigor related training and development	<u>12,000</u>
Total	\$ 5,152,527

**RECOMMENDATION:** The Superintendent recommends the Board of Education discuss, modify as needed and approve the school system performance goals for the 2012-2013 school year.

# DRAFT for Board Discussion and Revision

## Proposed Performance Goals for 2012-2013

### For School System

#### 1. SCIENCE , MATHEMATICS, TECHNOLOGY, **ENGINEERING, and LEADERSHIP** INITIATIVES

- By the spring of 2012, present to the board a new technology plan that places strategic K-12 emphasis on acquisition of technology for student and teacher use with special emphasis on science and math. **(Completed June, 2012)**
- ~~By April 2012, Continue to establish~~ **develop the** thematic choice option for Central Elementary which focuses on STEM Education. Implement **the Engineering is Elementary curriculum at Central Elementary plan for fall 2012-2013**. ~~Develop other thematic focus options for other Title I schools.~~
- **By Spring 2013, establish thematic choice option for Efland-Cheeks Elementary which focuses on leadership development. Develop other thematic focus options for other schools as needed.**
- Develop strategies and practices which utilize the National Math and Science Initiative (NMSI) framework for increasing teacher effectiveness in rigorous, higher level math and science courses.

#### 2. RIGOR

For the fall of 2012, implement and initiate strategies and practices to increase the availability and quality of advanced ~~courses~~ **coursework** available to middle and high school students. Increase school-level emphasis on answering the fourth tenant of Professional Learning Communities: "What are we going to do if they (students) already know it?"

#### 3. COLLEGE AND CAREER READINESS/STUDENT ACHIEVEMENT

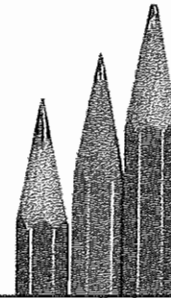
~~Beginning in the spring of 2012, initiate~~ **Further develop** OCS college and career readiness measures for K-12 guidance counseling which are aligned to state and national priorities. ~~This will require~~ **Continue** implementation of the College Board's "Own The Turf" counselor engagement and improvement program.

#### **4. Fully and successfully implement the OCS conversion to the digital classroom. (Added – Aug. 2012)**

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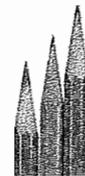
*Striving for Excellence*

**Report on District Goals**



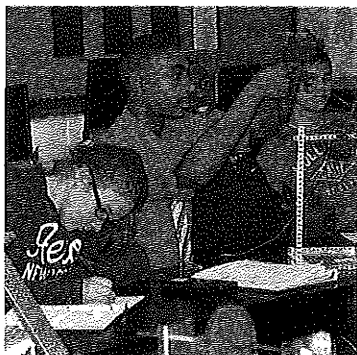
*District Goals for 2012-2013*

- ✓ Science, Technology, Engineering and Mathematics (STEM) Initiatives
- ✓ Leadership Development
- ✓ Academic Rigor
- ✓ College and Career Readiness
- ✓ Conversion to the Digital Classroom



# DRAFT

## Science, Technology, Engineering and Mathematics (STEM)



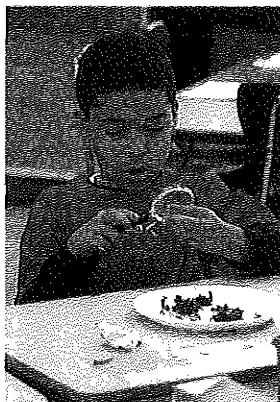
STEM provides real world relevance to students and is designed to promote effective and relevant connections between 21st century learning skills and how they are used across all subjects and curriculum.



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## Science, Technology, Engineering and Mathematics (STEM)

STEM transforms teacher-centered classrooms by encouraging problem-solving, discovery, exploratory learning and active engagement in order to find solutions.



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## STEM



The Board of Education approved a new technology plan that places a strategic K-12 emphasis on acquisition of technology for students and staff.



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## STEM

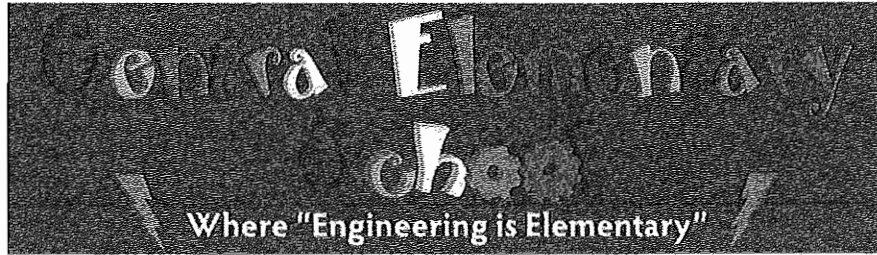
Continue to develop the thematic choice option for Central Elementary School which focuses on STEM Education.



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## STEM



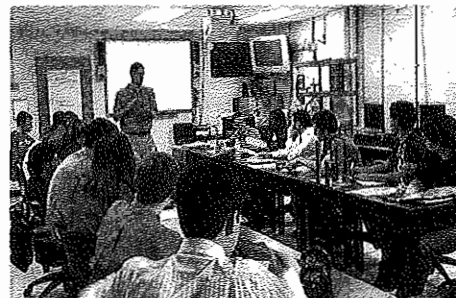
Implement the Engineering is Elementary curriculum at Central Elementary School for the 2012-13 school year.



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## STEM

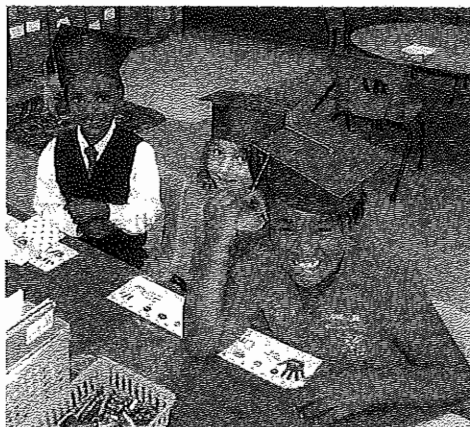
Develop strategies and practices which utilize the National Math and Science Initiative (NMSI) framework for increasing teacher effectiveness in rigorous, higher level math and science courses.



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## Leadership Development



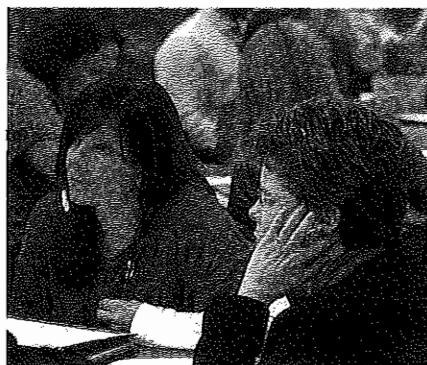
Establish thematic choice option for Efland-Cheeks Elementary School, which focuses on Leadership Development.



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## Academic Rigor

For the fall of 2012, implement and initiate strategies and practices to increase the availability and quality of advanced coursework available to middle and high school students.



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## Academic Rigor



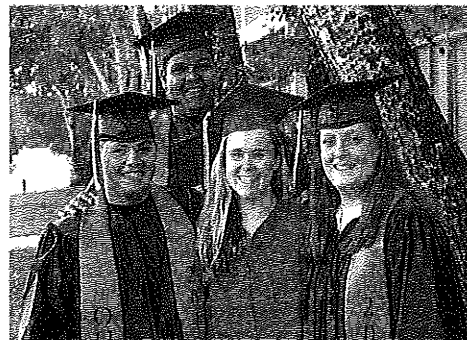
Increase school-level emphasis on answering the fourth tenant of Professional Learning Communities: What are we going to do if they (students) already know it?



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## College and Career Readiness

Further develop OCS College and Career Readiness measures for K-12 guidance counseling which are aligned to state and national priorities.

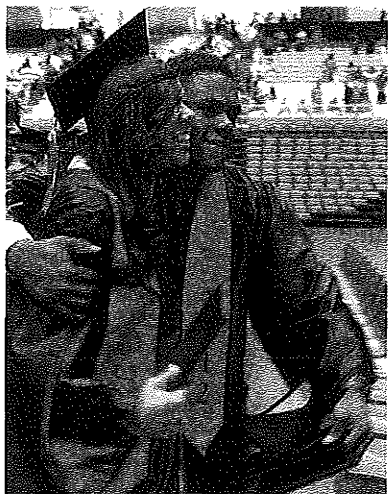


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## College and Career Readiness



Implement the College Board's "Own the Turf" counselor engagement and improvement program.



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## COLLEGE & CAREER READINESS... FOR ALL STUDENTS

Logos included in the collage:

- CAREER COLLEGE ready set go!
- AVID
- CollegeBoard
- International Baccalaureate
- NORTH CAROLINA CAREER READINESS CERTIFICATE
- CTE
- OWN THE TURF
- WorkKeys
- College Foundation of North Carolina
- VIRTUAL ENTERPRISES INTERNATIONAL
- ACT
- CareerCruising
- PLAN
- SOCRATES
- Common CORE
- EXPLORE
- SOCRATES

# DRAFT

**SCIENCE TECHNOLOGY ENGINEERING & MATH**

Discovery EDUCATION

Blended Learning Methodology

Biotechnology

ncbiotech

SSAS

Engineering is ELEMENTARY

PLTW  
LIGHTING IMAGINATION AND INNOVATION THROUGH LEARNING.

NCTM

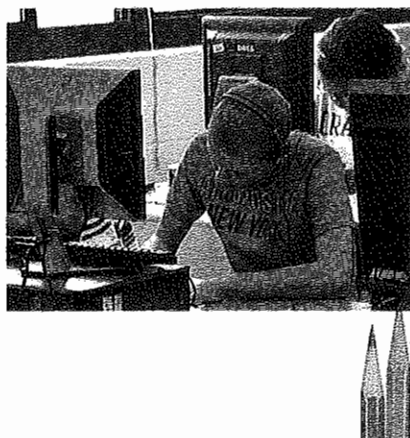
Duke UNIVERSITY

moodle

NC STATE UNIVERSITY & Ag

## Conversion to the Digital Classroom

During the 2012-13 school year, OCS will be converting to Digital Classrooms. Students in grades 6-12 will receive laptop computers for their use during the school year.

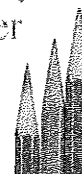


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## Conversion to the Digital Classroom



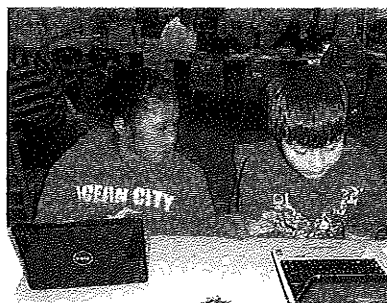
Students in grade 4 and 5 will receive laptops or other digital devices during the 2013-14 school year. The district's current secondary technology assets will be moved to the elementary schools to give younger students increased access to computers.



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## Conversion to the Digital Classroom

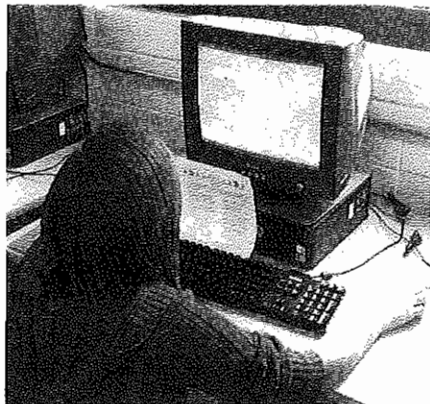
The district has strengthened its technological infrastructure by dramatically increasing the number wireless access points and bandwidth available in the district.



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## Conversion to the Digital Classroom



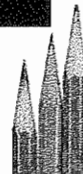
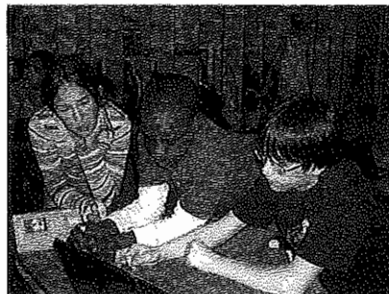
Students will have access to digital textbooks, online learning sites and study guides.



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## Conversion to the Digital Classroom

The 1-to-1 Laptop Initiative will fundamentally redefine education in Orange County Schools.

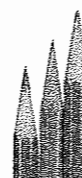


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The Successes of Orange County  
Schools Would Not be Possible  
Without the Outstanding  
Leadership of Our Board and the  
Support of the Community.

Thank You for Supporting Our  
Schools.



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## Progress Report on the Board of Education's 2012 System Performance Goals

### Science, Technology, Engineering and Mathematics (STEM)

- Initiated a one-to-one computer initiative. For the fall of 2012, all students grades 6-12 will receive a laptop computer for use. All teachers have also received laptops as well.
- Purchased Discovery Education digital textbooks for science K-12.
- Established a STEM related pre-engineering, Engineering Is Elementary (EIE) theme for Central Elementary. This includes recruiting and hiring the top school-level EIE lead teacher in the state.
- Created a STEM advisory committee consisting of business, post secondary, and public school partners. This is a part of receiving full Project Lead the Way district certification and will provide the starting point for a full K-12 STEM advisory committee.
- Increased support of Robotics programs with three elementary, one middle, and both high schools participating in competitions.
- This summer's LEAP elementary enrichment placed heavy emphasis on STEM activities.

### College and Career Readiness

- Counselors, principals and administrators began an important initiative of creating a culture of all students being college and career ready. Vivian Lee, the National Director of the College Board's Office of School Counselor Advocacy presented the "Own the Turf" program. This initiative gives a framework for counselors and administrators to use as we emphasize college and career readiness. Own the Turf focuses on eight components. OCS is the first district in North Carolina to adopt this model.
- Counselors and administrators from each school met as a group on early release and common core workdays. Schools began setting goals centered around the eight components. In March, groups reviewed data to better understand the "AND" in College and Career Ready. In May, we led focused conversations about principal and counselor relationships, another focus of "Own the Turf".
- For the 2012-2013 school year, school improvement plans will be required to include Rigor & College Career Ready strategies.
- OCS sent eight counselors (2 high, 3 middle, and 3 elementary) to the National College Board Conference in Virginia. The conference focused on college/career readiness and program equity.

### Rigor

We have maintained our district focus on increasing the number of students in advanced courses and are making progress toward greater rigor. Next year school improvement plans will be required to include rigor-related strategies and high school principals are being asked "What is your advanced academic program?" All principals will be asked to demonstrate how their school will be supporting rigor using the new one-to-one computing initiative. Other strategies include:

- This summer, OCS sent a record number of teachers (11) to Advanced Placement course training sessions. This increases the pool of available AP teachers and will give greater flexibility to principals as to who is assigned to teach these courses. These efforts mirror recommendations made by the National Math and Science Initiative (NMSI).
- This spring, OCS participated in a two-day work session called "Building a High Quality Advanced Placement Program". Principals, teachers and counselors from Cedar Ridge and Orange High attended this training hosted by the College Board.

continued

- Free of charge, an Orange High School assistant principal attended the College Board's Major School Systems meeting in Atlanta, May 3-4, 2012. This annual meeting highlights best practices around College Readiness – in particular best practices that highlight achievements in growing AP participation and performance.
- Hillsborough Elementary School formed the district's first JR. SOCRATES program. Hillsborough Elementary students visited Orange High and observed in high school classes.

Other activities supporting the district focus on improving rigor include:

- Fully implementing the new standards through Common Core and More summer sessions (2011 and 2012).
- Conduct Common Core Curriculum development meetings and vertical team meetings.
- Developed Essential Learning Outcomes for each course.
- Provide a report to the Board of Education on the number of students enrolled in advanced courses, the number of students taking AP tests, and the student performance on the AP exams.
- Orange County Schools has partnered with the College Board to offer professional development to high school teachers and staff. Larry Brown, a Senior Director from the College Board, met with high school educators to share strategies used by school districts around the nation to increase the number of underrepresented students in advanced courses.
- High School students were guest speakers at middle schools (addressing honors, AP, IB, Middle College High School, and taking challenging courses)
- Orange County Schools is one of the few LEAs in North Carolina to offer English I in middle school. Students receive high school credit for successfully completing the course and our results have been positive.
- OCS educators attended a training session with national authority Rick Wormeli on the topic of "Differentiated Instruction" – hosted by Triangle High Five. All K-12 assistant principals attended this training.
- During the 2011-2012 school year, we expanded the RACG Goal 2 Committee to include teachers, administrators, and counselors from elementary through high school. Prior to this year, the committee only included 6-12 grade educators. The committee has representatives from all of the district's schools. In addition to sharing school-level strategies for supporting this district goal, members of the committee are focusing on district data and seeking ways to reach more students and families through partnering with their feeder schools (middle and high schools).