



Public Schools of North Carolina

Mathematics in North Carolina

DPI Update

Mathematics Summer Institute

July 22 – 24, 2008

Agenda

- Blue Ribbon Commission Report
- Future Ready Core Course of Study
Mathematics Graduation Requirements
- High School Credit for Mathematics Courses
taken during Grades 6-8
- Graduation Project
- Graphing Calculators and the EOG/EOC Tests
- Mathematics and Science Partnership Grants



Agenda

- Presidential Award for Excellence in Science and Mathematics Teaching
- American Diploma Project
- Honors Review
- Conferences
- Mathematics Contests
- Manipulative Kits
- Listservs
- New DPI Resources Webpage!



Blue Ribbon Commission on Testing and Accountability

Report to a joint meeting of the General
Assembly and the State Board of
Education during April 2008

Full Report Available at:

[www.ncpublicschools.org/sbe_meetings/
0801/accountabilityfinalreport.pdf](http://www.ncpublicschools.org/sbe_meetings/0801/accountabilityfinalreport.pdf)



Blue Ribbon Commission on Testing and Accountability

- A new generation of assessment
- Writing in every subject area
- Essential Standards
- Delay in 6-12 Revision (and textbook adoption)



Blue Ribbon Commission on Testing and Accountability

- New test for Integrated Mathematics
- Middle School Students enrolled in HS mathematics courses not required to take the EOG (pending US Dept of Ed approval)



Future-Ready Core Course of Study Mathematics Graduation Requirements

- Beginning with the 09-10 freshman class, (current 7th graders), students will be required to complete 4 math credits for graduation



Future-Ready Core Course of Study Mathematics Graduation Requirements

Core Mathematics Courses		
Algebra I	O R	Integrated Mathematics I
Geometry		Integrated Mathematics II
Algebra II		Integrated Mathematics III



Future-Ready Core Course of Study Mathematics Graduation Requirements

Courses that are accepted by the UNC General Administration for admission to UNC Institutions*

Advanced Functions & Modeling	OR	Pre-Calculus	OR	Integrated Mathematics IV	OR	Discrete Mathematics
AP Statistics			OR	AP Calculus		



Future-Ready Core Course of Study Mathematics Graduation Requirements

Community College Courses at a certain level
(see list—some meet the UNC 4th math
requirement; some don't)

CTE Courses that may be used for the 4th
mathematics (target date for list to be
available=August 15, 2008).

More information available at:
[http://community.learnnc.org/dpi/math/
archives/2007/10/graduation_requ.php](http://community.learnnc.org/dpi/math/archives/2007/10/graduation_requ.php)



Future-Ready Core Course of Study Mathematics Graduation Requirements

At the request of a parent and with counseling provided by the school, a student will be able to opt out of the Future-Ready Core Course of Study mathematics sequence. He/she will be required to pass [Algebra I and Geometry] OR [Integrated Mathematics I and II], and two other mathematics courses (Alternative Mathematics I and II).



Future-Ready Core Course of Study Mathematics Graduation Requirements

Who is this student? Despite appropriate and focused intervention in mathematics over time, the student has demonstrated unusual difficulty in mastering mathematics concepts.



High School Credit for Mathematics Courses taken during Grades 6-8

- Begins with students who were in grades 6-8 during 2007-08
- Students must achieve a level III or IV on the EOC to meet the high school graduation requirement.
- Grades from 6-8 do not count in the HS GPA.



High School Credit for Mathematics Courses taken during Grades 6-8

- Students who take Algebra 1/IM 1 in Middle School should have already mastered the content of 6-8 mathematics
- Key topics in grade 8 mathematics are essential for Algebra 1/IM 1 success



High School Credit for Mathematics Courses taken during Grades 6-8 FAQ

Download from

[http://community.learnnc.org/dpi/math/
archives/2007/10/
credit_for_high.php](http://community.learnnc.org/dpi/math/archives/2007/10/credit_for_high.php)



Graduation Project

- Effective with the entering 2006-2007 ninth graders (this year's sophomores)
- Consist of four components
 - Research paper
 - Product
 - Portfolio
 - Oral presentation
- Note: Students must complete all four



Graduation Project

- Middle schools can assist with this project by helping students build the foundational skills necessary to complete the four components. More information is available on the implementation guide page 24.
- DPI contact (for implementation questions): Bryar Cogle, bcogle@dpi.state.nc.us
- <http://www.dpi.state.nc.us/graduationproject/>



Preparation of Graphing Calculators for EOG/EOC Testing

In addition to clearing the RAM on the day of the testing, access to the **applications on the calculator must be blocked.**

Directions to accomplish this task are available at

http://community.learnnc.org/dpi/math/archives/2008/03/graphing_calcul.php



Mathematics and Science Partnerships (MSP)

Three year professional development
projects

Last RFP is on the web at

[http://community.learnnc.org/dpi/math/
archives/2007/09/mathematics_sci.php](http://community.learnnc.org/dpi/math/archives/2007/09/mathematics_sci.php)

Expected Due Date: December 15, 2008



Mathematics/Science Partnerships Must Include

- An institution of higher education science, technology, engineering, or mathematics department (STEM), at 2 or 4 year institutions.
- A high-need local educational agency-
district, school



Presidential Awards for Excellence in Mathematics & Science Teaching

www.paemst.org

*Highest recognition for a K-12 mathematics or science
teacher*

Year	Who Can Apply	Nomination Deadline	Application Deadline
2009	Secondary Teachers Grades 7 - 12	TBA	May 1, 2009



American Diploma Project (ADP)

- Partnership with Achieve, Inc., The Education Trust, and the Thomas B. Fordham Foundation
- Key findings: Convergence of skills required for success in college and work
- Two Quality Reviews of NC Math & ELA Standards
- Achieve has facilitated an ADP Algebra II End-of-Course Exam

www.achieve.org



Honors Review

- NC Honors Course Rubric
- 64 randomly selected high schools participated in an honors course review in May 2008
- Summary of information from the May 2008 review will be available soon
- <http://www.ncpublicschools.org/middle-secondary/>



Conference Info

NCCTM

October 30 – 31, 2008 Koury Convention
Center, Greensboro, ncctm.org

NCTM 2009 Annual Meeting and
Exposition April 22 – 25, 2008 in
Washington, D.C., nctm.org



Math Contests

- American Mathematics Competition 8, 10, 12
www.unl.edu/amc
- Mathcounts
www.mathcounts.org
- State Mathematics Contests (Algebra I, Geometry, Algebra II)
<http://courses.ncssm.edu/goebel/STATECON/state.htm>
- Purple Comet Math Contest
www.purplecomet.org
- JETS
<http://www.jets.org/TEAMS/index.cfm>



Manipulative Kits

- ETA is in the process of preparing a middle school manipulative kit similar to the elementary kit
- Items may be ordered individually
- Must use the numbers on the NC order form – catalog numbers will not give the NC price
- A list of items, prices and order numbers is available at http://community.learnnc.org/dpi/math/archives/2005/06/north_carolina_2.php



Listservs

- We maintain elementary, middle, and high school listservs.
- Advantage: Receive “real time” information
- To join any of these listservs, please e-mail Victoria Ewing, vewing@dpi.state.nc.us



New DPI Resources Webpage!

- Available August 25
- Currently only has 6, 7 and 8th grades
- Week-by-weeks have not been moved yet
- Includes descriptors, indicators, and tasks organized by standard

[6th grade resource page](#)



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Questions???

Thank you for your time!

Let us hear from you!!!

