



**Happy New Year from the NC DPI Secondary Mathematics Team!**

*We hope that you enjoyed your Winter Break! We look forward to supporting Educators as they work to support All students in North Carolina!*

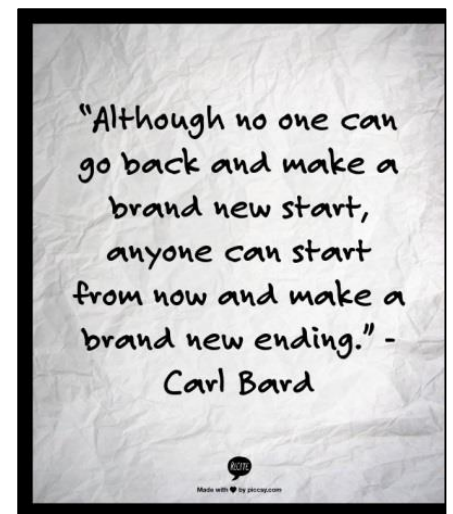
**Tips to engage, motivate students after winter break**

It can be difficult for teachers to get their students' attention when they return from winter break, Judy Willis, a neurologist and former teacher, writes in this commentary. She offers suggestions to help engage and motivate students when they return from break. [The Guardian \(London\)/Teacher Network blog](#)

**How to move from teaching content to teaching learning**

"Despite being a fairly universal goal of educators and education systems, producing lifelong learners is not a process that has a set of concrete steps," writes guest blogger Kelly Morgan Dempewolf. In a recent post, Dempewolf shares ways educators can move from teaching content to teaching learning.

[Read on.](#)



***Coming Soon***

**Community Standards Revision Survey**



Standard Review Process	
Oct. – Dec.	Teacher Standards Review Survey
Nov. - Dec.	Teacher Standards Review Work Groups
Opening in Jan	Community Standards Review Survey

**State Superintendent Addresses Changes in Standard Course of Study**

Dr. June Atkinson shares information on recent Legislative decisions around NC's Standard Course of Study. The decision holds no changes for the 2014-15 school year. Dr. Atkinson outlines the timeline for how the changes will affect NC schools in years to come.

**Link:** → [mov, 21.7mb](#)



# Frequently Asked Questions

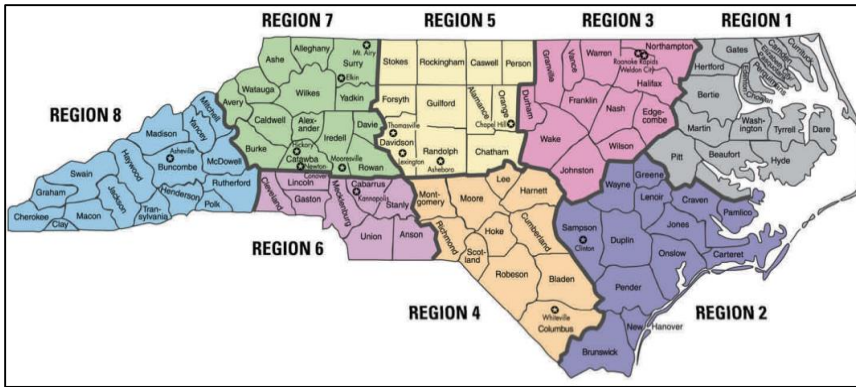


## 1. What and when are the fall RESA Professional Development sessions?

**What:** Equip Training

The Spring RESA session participants will learn about the actions required to ensure that all students learn to become mathematical thinkers and are prepared for any academic career or professional path that they choose. Principles to Actions, sets forth a set of strongly recommended, research-informed actions for all teachers, coaches, and specialist in mathematics.

Each participant will receive the book: *Principles to Actions: Ensuring Mathematical Success for All* by National Council of Teachers of Mathematics.



*Please contact your regional PD Lead about this opportunity.*

**When:**

**Region 1-** March 18

**Region 5-** February 25

**Region 2-** February 12

**Region 6-** February 24

**Region 3-** January 21

**Region 7-** March 12

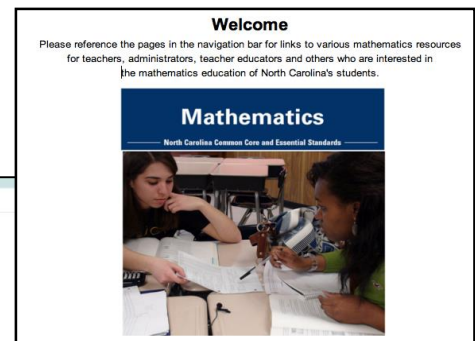
**Region 4-** March 3

**Region 8-** March 11

## 2. Where can I find support materials and resources for Math?

All NCDPI-produced support materials and resources can be located on the Math Wiki. Go to

<http://maccss.ncdpi.wikispaces.net/Home>



*Regional Professional Development*



**Eastern Regional Professional Development**

**North Carolina Council of Teachers of Mathematics**

**Eastern Regional Conference**

*Practicing the Practices*

**Saturday February 21st**

**9:00 a.m. - 2:00 p.m.**

**James Sprunt Community College**

**Kenansville, NC**

[Register Here to Attend by February 1](#)

*Regional Professional Development*

**NCCTM Central Regional Conference**

***Every Student Counts!***



**February 21, 2015**

**9:00 a.m. to 12:30 p.m.**

**North Carolina Central University**

**1801 Fayetteville Rd.**

**Durham, NC 27707**

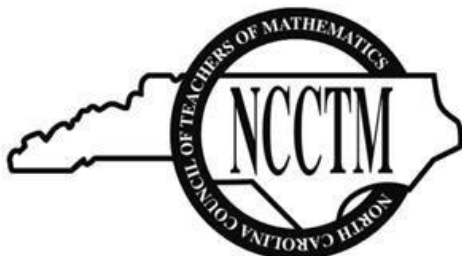
**Registration is FREE for all participants**

**45 minute sessions focusing on mathematics for all grade levels:**

**K-2, 3-5, middle and high school**

[Interested speakers please click here to submit proposals by \*\*January 24, 2015\*\*](#)

**For More Information Contact [Maria Hernandez](#)**



**2014 North Carolina Council of  
Teachers of Mathematics Spring  
Conference**

**Join the DPI Mathematics Team for this Conference on  
March 27 in Greensboro**

## Announcement

# The Presidential Awards for Excellence in Mathematics and Science Teaching



The Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST) is the highest recognition that a math or science teacher may receive for outstanding teaching in the United States. Awardees serve as models for their colleagues, inspiration to their communities, and leaders in the improvement of mathematics and science education. This program is pleased to announce that nominations for the 2014-2015-award year are open. To submit a nomination for an exceptional grades 7-12 teacher, complete the nomination form available on the [PAEMST website](#), and submit the teacher's name, email address and school contact information. If you know more than one teacher deserving of this award, you may submit multiple nominations. The 2014-2015-nomination **deadline is April 1, 2015**, and the **application deadline is May 1, 2015**. Teachers may also apply directly at [www.paemst.org](http://www.paemst.org). If you have additional questions please contact your State Mathematics Coordinator, Kitty Rutherford [kitty.rutherford@dpi.nc.gov](mailto:kitty.rutherford@dpi.nc.gov).

## Announcement

### January 2015 Webinars on Global Educator Digital Badge for Teachers

The State Board of Education approved the Global Educator Digital Badge for Teachers policy at the October 2, 2014, SBE meeting. Beginning in January 2015, a candidate for the Global Educator Digital Badge should work with his or her supervising administrator to create a professional development plan focused on embedding global education in instruction. Candidates for the badge will be required to complete 100 hours or 10 CEUs of global educational professional development and meet a Capstone Project requirement within two years.

A webinar to address the principal's role in this process will be offered on Tuesday, Jan. 13 and Thursday, Jan. 15. You only need to register for one webinar.

- Tuesday, Jan. 13, 1-2 p.m.: <https://www1.gotomeeting.com/register/463551753>
- Thursday, Jan. 15, 10-11 a.m.: <https://www1.gotomeeting.com/register/826270865>

A webinar to address the teacher's role in this process will be offered on:

Thursday, Jan. 15, 4-5 p.m.: <https://www1.gotomeeting.com/register/943871985>

*Once registered, you will receive an email confirming your registration along with information you need to join the Webinar.*

For additional information regarding the Global Educator Digital Badge for Teachers and other global education initiatives, please visit <http://www.ncpublicschools.org/globaled>.



Promoting public understanding of  
and support for bioscience research

**Application process still open for *Ignite the Power of STEM* competitive grant program.**

The Biogen Idec Foundation will award \$125,000 in grants to support innovative science education programs and projects across North Carolina. *Ignite the Power of STEM* grants will be awarded to teachers, schools and non-profit STEM education programs that serve K-12 students. More information about the grant and the link to apply can be found by visiting [biogenidec.com/ignitenc](http://biogenidec.com/ignitenc).

**The deadline to apply is 5:00 pm on Friday, January 16, 2015.** Grants will be awarded by February 20, 2015, and are to be expended by December 31, 2015.

- Teachers may apply for a grant up to \$2,000.
- Schools and non-profits may apply for grant up to \$5,000.

**Eligibility:** Applications will be accepted from full-time professional personnel from public and charter schools located in N.C. that had at least one individual from their school district registered for, or in attendance at, the [Bridging the Gap](#) STEM education conference on October 28-29, 2014. Applications also will be accepted from non-profit STEM education programs that serve K-12 students. Preference will be given to conference registrants and attendees and to programs that work with schools that attended the conference

**Programs should be designed to:**

- Promote science literacy in innovative ways among students
- Enable teachers to bring new, exciting hands-on science experiences to their students
- Encourage underserved youth with potential to pursue science as a career
- Create excitement about STEM topics within the classroom setting
- Inspire students to consider pursuing STEM careers

**For questions, please contact [Melchee Johnson](#) at Triangle Community Foundation.**

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## Teaching Statistics Through Data Investigations

New Online Course Starting March 9<sup>th</sup> [www.mooc-ed.org/tsdi](http://www.mooc-ed.org/tsdi)

Learn with colleagues near and far in this 8-week, online professional development course, designed for teachers of statistics in grades 6-12 and post-secondary contexts. This course can help you learn to teach statistics using investigations, with real data and real cool tools! The course is **FREE** and can lead to continuing education credits.

Offered through the Friday Institute for Educational Innovation at NC State University

Lead instructor: Dr. Hollylynn Lee, Professor of Mathematics Education



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	<p>Mathematics Symposium Meredith College, Raleigh NC Saturday, March 7, 2015</p>
	<p><b>Edward Silver</b></p> <p>Edward Silver teaches and advises graduate students in mathematics education at the University of Michigan and conducts research related to the teaching and learning of mathematics. He has published more than 160 articles, chapters, and books.</p>
<p><b>SUPPORTING INCREASED STUDENT ACHIEVEMENT IN THE SECONDARY MATHEMATICS CLASSROOM</b></p>	<p><b>Lee Stiff</b></p> <p>Lee Stiff teaches math and mathematics education at NCSU. He has chaired to completion the committees of 9 PhD students in mathematics education and has received over \$1million in grants. He has more than 100 publications, including contributions to 12 mathematics textbooks.</p>
<p>Saturday, March 7, 9:30-2:00</p> <p>Check-in at 9:30 in Jones Auditorium. Symposium begins at 10:00. Lunch will be served in Belk Dining Hall at noon.</p> <p><b>Meredith College 3800 Hillsborough St. Raleigh, NC 27607 919-760-8756</b></p> <p><b>For assistance in registration email Cindy Bell at <a href="mailto:bellcyn@meredith.edu">bellcyn@meredith.edu</a></b></p>	<p><b>George Bright</b></p> <p>George Bright taught math and mathematics education for 30 years and is now Professor Emeritus at UNCG. He has been Principal Investigator for a wide range of grants and is recently focused on students' thinking, interpreting that information to infer what students know, and adjusting instruction to match students' needs.</p> <p><b>Many thanks to the North Carolina Science, Mathematics, and Technology Education Center for its support of the Symposium</b></p>
<p><b>Meredith College   3800 Hillsborough St.   Raleigh, NC 27607   919-760-8756   Symposium sponsored by Project LEAD</b></p>	

Follow this [link](#) to register! (Deadline for registration is February 20.)

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## Something to think about

The **National Council for Teachers of Mathematics** is seeking reviewers for journal articles for Teaching Children Mathematics, the elementary school math journal. Interested people can register here: <http://tcm.msubmit.net/cgi-bin/main.plex> . For additional questions please contact Drew Polly, [drew.polly@uncc.edu](mailto:drew.polly@uncc.edu)



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## Looking Ahead....

### **Updates to the Unpacking Documents for 6-8 Mathematics and Math I, II and III**

The Secondary Math Unpacking documents will be updated this Fall. The documents will have updated examples and more clarification on the standards.

### **Instructional Resources for AFM, Discrete Mathematics and Precalculus**

Instructional resources to support the teaching of AFM, Discrete Math and Precalculus will be posted on the secondary math wiki. These documents will help to clarify the teaching and learning of these newly tested courses.

### **More Secondary Math Progressions**

Progressions for Statistics & Probability and Geometry are currently in development with an anticipated release date of early Spring.

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## Join the Listserv

If you have friends that are not on the **secondary mathematics listservs** but want to find out what's going on at the state level please encourage them to join our listserv.

### **Teachers can join the listserv by doing the following:**

1. Send an email to the Listserv by cutting and pasting the following address into the "To" box within your email application: [join-msmathdpi@lists.dpi.state.nc.us](mailto:join-msmathdpi@lists.dpi.state.nc.us) (middle grades) or [join-hsmathdpi@lists.dpi.state.nc.us](mailto:join-hsmathdpi@lists.dpi.state.nc.us) (secondary)
2. Leave the subject line and the body of the message blank.  
Once successfully subscribed, a confirmation email will be sent.
3. If you have any trouble please contact Susan Hart at [Susan.hart@dpi.nc.gov](mailto:Susan.hart@dpi.nc.gov).



## Follow Us!

 NC Mathematics [www.facebook.com/NorthCarolinaMathematics](http://www.facebook.com/NorthCarolinaMathematics)

 @ncmathematics



## Contact Information



### Secondary Mathematics Consultants

Lisa Ashe [lisa.ashe@dpi.nc.gov](mailto:lisa.ashe@dpi.nc.gov)  
Johannah Maynor [johannah.maynor@dpi.nc.gov](mailto:johannah.maynor@dpi.nc.gov)

### Mathematics Section Chief

Dr. Jennifer Curtis [jennifer.curtis@dpi.nc.gov](mailto:jennifer.curtis@dpi.nc.gov)



**THANK  
YOU**

**For all you do for our students every day!**