

# Double Session & Session 1

## Double Session - 9:30 – 11:15 AM

**1** 9:30 a.m.–11:15 a.m.  
3-5 Room 171/172

### Developing Multiplicative Thinking in 3rd, 4th and 5th Graders

Students may know the  $\times$  &  $\div$  operations, yet remain additive in their thinking. Thinking multiplicatively is different.

**Speaker: James Brickwedde**

*Hamline University of MN - St. Paul, MN*

**2** 9:30 a.m.–10:15 a.m.  
6-12 152

### Maximizing the Gains of Best Practices in the 21st Century Classroom

The rationale for this presentation is to maximize the gains of best practices in the classrooms by exposing research findings on best practices and how they affect students' engagement and achievement in the classrooms. When teachers are equipped with the tools they need to boost their students' engagement in the lesson; significant gains are registered by their students in terms of tests/quizzes scores.

**Speaker: Ken Nwocha, Baltimore Public Schools - Baltimore, MD**

**REPEATED AT 1:30 – 2:15 PM**

**3** 9:30 a.m.–10:15 a.m.  
6-12/College Room 173

### TI-Nspire for Beginners - Why You Should Consider Using It

This session is for beginners. It will introduce the TI-Nspire and its many features.

**Speakers: Lisa Conzemius**

*Detroit Lakes High School - Detroit Lakes, MN;  
T<sup>3</sup> Regional Instructor*

**4** 9:30 a.m.–10:15 a.m.  
PreK-5 Room 190

### Perspectives on Elementary Intervention

The session will focus on research related to RTI and math. We will have a panel to discuss issues related to implementation of intervention programs.

**Speaker: Michele Luke, Anne Bartel, Pam Richards & Shannon Gilmore**

*Hopkins Public Schools - Hopkins, MN*

**5** 9:30 a.m.–10:15 a.m.  
K-6 Room 159/160

### How Do We Integrate? Literacy and STEM Integrated Curricula Modules

This session will introduce teachers to curricula designed to integrate trade books and STEM activities in K-6.

**Speaker: Tamara Moore & Kristie Tank**

*University of Minnesota - St. Paul, MN*

**6** 9:30 a.m.–10:15 a.m.  
3-8 Room 149

### Bears, Baseball and Statistics! Oh My!

Classroom lesson plan ideas for developing students' statistical and technological literacy and critical thinking skills while incorporating reading.

**Speaker: Micah Stohlmann**

*University of MN - Minneapolis, MN*

**7** 9:30 a.m.–10:15 a.m.  
6-12 Room 170

### Beyond the Table of Contents - Examining Curricula for Meeting Standards

Influences on curriculum selection. Questions to pose in getting beyond the ToC and sales pitch. Below the surface, explore examples in comparing content, objectives, rigor, correlation with standards.

**Speaker: Teresa Gonske & Caleb Hardacre,**

*Northwestern College - St. Paul, MN*

**8** 9:30 a.m.–10:15 a.m.  
6-12 Room 150/151

### SURVIVAL: A Teacher's Perspective

Learn how to survive your first few years of teaching. The members of the panel will share how they are coping with their beginning years of teaching and share insights into their success.

**Speaker: Terry Wyberg**

*University of MN - St. Paul, MN*

**9** 9:30 a.m.–10:15 a.m.  
General Room 188/189

### Math MCA-III Updates

Changes? Proposed changes? What is REALLY happening to the mathematics assessments? Presenters will share the latest information for all levels of experience and answer your questions.

**Speaker: Rosemary Heinitz, Margarita Alvarez & Jennifer Dugan**

*Minnesota Department of Education - Roseville, MN*

**10** 9:30 a.m.–10:15 a.m.  
General Room 158

### What's Working in Classroom Technology - A Sharing Session

This is a technology sharing session hosted by the MCTM technology committee. Bring your experiences, ideas and insights to share.

**Speaker: Seth Leavitt & Rich Enderton**

*Minneapolis Public Schools - Minneapolis, MN*

# Regular Sessions 1 & 2

**11** 9:30 a.m.–10:15 a.m.  
6-12/General Room 161

## Zombie Mathematics

Using the power of isomorphic problems to encourage creative problem solving in the classroom and beyond.

**Speaker: Chris Lusto**

*St. Louis Park Schools - St. Louis Park, MN*

**16** 10:30 a.m.–11:15 a.m.  
3-8 Room 173

## How a Coherent Curriculum in Fractions Prepares for Algebra

Critical thinking skills for algebra are developed using a number-line based fractions curriculum that stresses conceptual development and abstraction.

**Speaker: Allison Coates**

*MSMI - St. Paul, MN*

**12** 9:30 a.m.–10:15 a.m.  
PreK-5 Room 191

## Statistics and Algebra Activity for 2nd and 3rd Grades

Innovative activity for lower grades using time series data will be presented. Activity contains algebra, statistics, and science topics.

**Speaker: Derek Webb**

*Bemidji State University - Bemidji, MN*

**REPEATED AT 1:30 – 2:15 PM**

**17** 10:30 a.m.–11:15 a.m.  
6-12 Room 190

## Perspectives on Secondary Intervention

The session will focus on research and issues related to RTI and math. We will have a panel to discuss issues related to implementation of intervention programs.

**Speaker: Michele Luke, Anne Bartel & Pamela Richards**

*Hopkins Public Schools - Hopkins, MN*

**13** 9:30 a.m.–10:15 a.m.  
5-College Room 157

## Evolution of the Classroom

In a society that is ever changing, are you? See how my classroom has evolved from a chalkboard and discuss options that we all have.

**Speaker: Jamie Schnack**

*St. Louis Park School District - St. Louis Park, MN*

**18** 10:30 a.m.–11:15 a.m.  
PreK-8 Room 159/160

## VMath: Math Intervention That Works

Struggling with students that need a support in essential concepts, skills and problem-solving strategies? Vmath wraps around your core math curriculum by scaffolding instruction to meet students needs and assisting in reaching grade-level standards. Vmath provides a blended solution of teacher-led instruction with student-centered technology so students can develop the foundational knowledge that they need for future math success.

**Speaker: Sarah Evans**

*Voyager Learning - Dallas, TX*

**14** 9:30 a.m.–10:15 a.m.  
General Computer Lab/Library-186

## Using the Frameworks for Teaching

Work with others to use the Frameworks website for lesson planning or to find information for your PLC.

**Speaker: Sue Wygant**

*Minnesota Department of Education - Roseville, MN*

**19** 10:30 a.m.–11:15 a.m.  
9-12 Room 187

## Making Math More Accessible: How to Attend to Academic Math Language for English Learners: Secondary Classrooms

The strategies presented in this session are designed to make math content more accessible to English Learners (ELs) by exploring how to: 1) identify the academic language needs of English Learners (ELs), 2) incorporate language objectives into existing lessons and 3) ensure that assessments are equally accessible to all students.

**Speaker: Michelle Benegas, University of MN - St. Paul, MN**

**REPEATED AT 1:30 - 2:15 PM**

## Session 2 – 10:30 – 11:15 AM

**15** 10:30 a.m.–11:15 a.m.  
PreK-2 Room 152

## Meeting the Standards with Stations/Centers and Games!

Participants will take part in centers/stations related to Measurement Standard for K-2. Handouts in form of CD with pdf files.

**Speaker: Jim Olson**

*Retired Teacher - Princeton, MN*

**20** 10:30 a.m.–11:15 a.m.  
6-12 Room 170

## Making Changes: Standards-Based Grading, Year 2

After implementing Standards-Based Grading in my Algebra and Geometry classes last year, I have made many changes. Difficulties encountered during the first year will be discussed as well as a report on the new changes for this year.

**Speaker: Anna Marie Gaylord**

*Minnehaha Academy - Minneapolis, MN*

# Session 2 & 3

**21** 10:30 a.m.–11:15 a.m.  
College Room 150/151

## Minnesota Teacher Licensure Exams (MTLEs) Answers to Frequently Asked Questions

This session will answer questions on how to register, what tests are needed for licensure, what study materials are available, and more.

**Speaker: Rhonda Bonnstetter**  
*Southwest MN State University - Marshall, MN*

**26** 10:30 a.m.–11:15 a.m..  
3-5 Room 157

## Learn About the Rational Number Project Fraction Lessons

Two RNP fraction curricula will be shared. Find out how to download all lessons from the RNP website.

**Speaker: Kathleen Cramer**  
*University of MN - Minneapolis, MN*

**22** 10:30 a.m.–11:15 a.m.  
General Room 188/189

## Standard Setting for Math MCA-III

This session will provide an overview of the standard setting process that occurred in June for the MCA-III Math Assessments. In addition, presenters will discuss how the Achievement Level Descriptors used for standard setting were developed as well as what they mean.

**Speaker: Margarita Alvarez, Jennifer Dugan & Rosemary Heinitz**  
*Minnesota Department of Education, Roseville, MN*

**27** 10:30 a.m.–11:15 a.m.  
General Computer Lab/Library

## Using Twitter as a Personal Learning Network: Get Started Today

I have begun to use Twitter. At first, it seemed very frivolous. Now I find it useful. Join me for a conversation, especially if you use Twitter. Bring an internet connected device and I'll bring some extras. Start tweeting today.

**Speaker: Seth Leavitt**  
*Minneapolis Public Schools - Minneapolis, MN*

## Session 3 – 12:30 – 1:15 PM

**23** 10:30 a.m.–11:15 a.m.  
General Room 158

## The Do's and Don'ts of Team Teaching

We will share the important aspects for successful team teaching that we have learned from teaching together in the mathematics classroom.

**Speaker: Kristin Addonizio & Nicole Jockisch**  
*Wayzata High School - Plymouth, MN*

**28** 12:30 p.m.–1:15 p.m.  
General Room 152

## Planning for a Substitute Teacher

This session will provide ideas for activities that can be done when you are not in the classroom.

**Speaker: Connie McTavish**  
*Mounds View Schools - Mounds View, MN*

**24** 10:30 a.m.–11:15 a.m.  
General Room 161

## Great Lesson Plans Made Quickly (Lesson Plans Can be Like Playlists)

This session will help attendees quickly create quality lesson plans by providing numerous options for each phase of the plan.

**Speaker: John Heisel**  
*Patrick Henry High School - Minneapolis, MN*

**29** 12:30 p.m.–1:15 p.m.  
9-12/College Room 173

## Modeling Quadratics With the TI-Nspire

Beginners and experienced users are welcome. Come see the cool features of the TI-Nspire.

**Speaker: Lisa Conzemius**  
*Detroit Lakes High School - Detroit Lakes, MN*  
*T<sup>3</sup> Regional Instructor*

**25** 10:30 a.m.–11:15 a.m.  
9-12 Room 191

## Experience First

I'll describe concrete tips/examples on providing students the experience of making sense of mathematics through their own "doing" of mathematics.

**Speaker: Ryota Matsuura**  
*St. Olaf College - Northfield, MN*

**30** 12:30 p.m.–1:15 p.m.  
9-College Room 190

## Teachers' Beliefs, Practices and Core Plus

A look at the relationship between beliefs and practices of teachers using Core-Plus including aspects of implementation.

**Speaker: Debra Monson**  
*University of St. Thomas - St. Paul, MN*

# Sessions 3 & 4

## Double Session – 12:30 – 2:15 PM

**31** 12:30 p.m.–2:15 p.m.  
PreK-2 Room 159/160

### Launch Into Number Sense!

Let's explore ways to develop an understanding of numbers. Including representing numbers, counting, comparing, ordering and place value.

**Speaker: Judy Hansen**

*Pipestone Area Schools - Pipestone, MN*

**32** 12:30 p.m.–1:15 p.m.  
K-5 Room 187

### Making Math More Accessible: How to Attend to Academic Math Language for English Learners: Elementary

The strategies presented in this session are designed to make math content more accessible to English Learners in the elementary grades by exploring how to identify the academic language needs of English Learners, by incorporating language objectives into existing lessons, and by ensuring assessments are equally accessible to all students.

**Speaker: Kathleen Mitchell, University of MN - Minneapolis, MN**

**33** 12:30 p.m.–1:15 p.m.  
6-College Room 149

### Fun and Fabulous Formative Assessments

Lots of ideas and an opportunity to share your thoughts about formative assessment strategies.

**Speaker: Emily Larsen**

*South Washington County Schools - Cottage Grove, MN*

**34** 12:30 p.m.–1:15 p.m.  
3-12 Room 170

### Increase Your Time to Teach Exponentially!

Learn dynamic strategies to reduce class time lost to misbehavior and increase time - and energy - for learning math.

**Speaker: Barbara K. Olson**

*Time to Teach - Minneapolis, MN*

**35** 12:30 p.m.–1:15 p.m.  
General Room 188/189

### Incorporate Math Assessment Items Into Standards-Based Instruction

An opportunity for teachers to learn about connections between math standards and assessments and possible approaches to learning experiences that incorporate assessment items.

**Speaker: Susan Wygant, Margarita Alvarez & Rosemary Heinitz, Minnesota Department of Education - Roseville, MN**

**36** 12:30 p.m.–1:15 p.m.  
PreK-5 Room 158

### Structuring Numbers: Moving From the Visual to Abstract for Mental Calculations.

The Add+VantageMR and Math Recovery professional development programs include a structuring numbers component. From the common ten frame to the Dutch inspired rekenrek, come discover ways to bridge mental math strategies from the concrete to the abstract.

**Speaker: Christina Miller**

*University of MN - Minneapolis, MN*

**37** 12:30 p.m.–1:15 p.m.  
9-12 Room 161

### International Mathematics Programs (Thailand and Brazil)

How are their programs similar to ours; how are they trying to improve math education for their students?

**Speaker: Sousada Chidthachack**

*University of MN - Minneapolis, MN*

**38** 12:30 p.m.–1:15 p.m.  
College Room 157

### Passing the MTLEs

Difficulty level for the math MTLE has increased. Problems and strategies for passing the MTLE will be shared.

**Speaker: Terry Wyberg**

*University of MN - Minneapolis, MN*

**39** 12:30 p.m.–1:15 p.m.  
PreK-5 Computer Lab/Library -186

### CBAS-Math: Developing Computer-Based Mathematics Assessment Items Based on the Common Core State Standards for K-5

Guided by meaningful discussion, participants' expertise will assist in current development activities of a new computerized math assessment.

**Speaker: Mi Sun Park, Wendi Schirvar, Katherine Pratt & Theodore Christ, University of MN - Minneapolis, MN**

## Session 4 – 1:30 – 2:15 PM

**40** 1:30 p.m.–2:15 p.m.  
6-12 Room 152

### Maximizing the Gains of Best Practices in the 21st Century Classroom

The rationale for this presentation is to maximize the gains of best practices in the classrooms by exposing research findings on best practices and how they affect students' engagement and achievement in the classrooms. When teachers are equipped with the tools they need to boost their students' engagement in the lesson; significant gains are registered by their students in terms of tests/quizzes scores.

**Speaker: Ken Nwocha, Baltimore Public Schools - Baltimore, MD**

REPEAT OF SESSION 2

# Session 4

**41** 1:30 p.m.–2:15 p.m.  
PreK-4 Room 173

## Flexible Groups, Guided Math Groups & Differentiation, OH MY!

This sessions will provide a framework for setting up math work stations as well as share high quality, standards-based resources to aid in easily setting up your stations.

**Speaker: Pamela Richards**  
*Maple Grove Public Schools - Maple Grove, MN*

**46** 1:30 p.m.–2:15 p.m.  
9-12 Room 150/151

## Implications for Using Integrated High School Curriculum

Results of five studies documenting students college performance based on what type of mathematics courses were taken in high school

**Speaker: Thomas Post**  
*University of MN - Minneapolis, MN*

**42** 1:30 p.m.–2:15 p.m.  
6-12 Room 190

## TRANSMATH: Motivate Struggling Learners to Achieve Mastery

Effective and flexible curriculum allowing teachers to design instruction according to student needs, promote mastery, and monitor student progress.

**Speaker: Sarah Evans**  
*Voyager Learning - Dallas, TX*

**47** 1:30 p.m.–2:15 p.m.  
9-12 Room 158

## Puzzling Proofs

Formal Geometry proofs are difficult for many students. Learn fun activities that can be used with the proofs in your textbook.

**Speaker: Karen Hyers**  
*Tartan High School - Oakdale, MN*

**43** 1:30 p.m.–2:15 p.m.  
9-12 Room 187

## Making Math More Accessible: How to Attend to Academic Math Language for English Learners: Secondary Classrooms

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**Speaker: Michelle Benegas, University of MN - St. Paul, MN**

### REPEAT OF SESSION 19

**48** 1:30 p.m.–2:15 p.m.  
PreK-5 Room 191

## Statistics and Algebra Activity for 2nd and 3rd Grades

Innovative activity for lower grades using time series data will be presented. Activity contains algebra, statistics, and science topics.

**Speaker: Derek Webb**  
*Bemidji State University - Bemidji, MN*

### REPEAT OF SESSION 12

**44** 1:30 p.m.–2:15 p.m.  
9-12 Room 149

## Modernizing Math Through Technology and Content

Learn how one geometry teacher blended a 1:1 laptop program, Geogebra, and a fully interactive moodle. See how stats class can be infused with art and help students to visualize data and its power.

**Speaker: Katherine Williams**  
*Fair School Downtown - Minneapolis, MN*

**49** 1:30 p.m.–2:15 p.m.  
6-12 Room 157

## Management Ideas: Bits and Pieces

A variety of classroom management tools to keep students motivated and help maintain their interest. Topics range from 5-minute fillers to problem solving activities to factoring methods and more.

**Speaker: Janet Genord**  
*Woodbury High School - Woodbury, MN*

**45** 1:30 p.m.–2:15 p.m.  
6-8 Room 170

## Learning to Love Math

This will be a workshop style session. Come prepared to share ideas and get ideas from others. How do we get kids to enjoy this often controversial subject of mathematics?

**Speaker: Courtney LaRoche**  
*Wayzata Central Middle School - Plymouth, MN*