



Manitoba Association of Mathematics Teachers

MG² (Math Goes Green)

Leila North Community School

20 Allan Blye Drive, Winnipeg

PROGRAM

8:00 a.m.–2:30 pm

Publishers' Displays

9:00–11:30 a.m.

AM sessions

11:30 a.m.–1:00 p.m.

Lunch

1:00–3:30 p.m.

PM sessions

Breaks to be scheduled by presenter.

In the effort to reduce our impact on the environment, please access our website for detailed information at www.mamt.mb.ca.

Please note: sessions that begin with 1 are in the morning (a.m.) and sessions that begin with 2 are in the afternoon (p.m.).

9:00–11:30 a.m.

AM Sessions

See www.mamt.mb.ca for descriptions.

100 Early Years Gr 1–3 Challenging Student Thinking in Mathematics **FULL**

Brian Tickle

Working Mathematically—Open Ended Questions and Rich Tasks—will feature open-ended questions, rich tasks and mathematical investigations designed to develop sound concepts, deep understanding and higher-order thinking. A focus will be placed on assessing students with different levels of understanding.

Code: 100

101 K–Gr.2 Working with Numbers **FULL**

Donna Slobodzian

Working with the strands in morning routines, activities, stories and games.

Code: 101

102 Early Years Exploring the Math Support Documents for Grades K, 1 and 2 **FULL**

Sherry Perih

This session will review and explore the contents of the Kindergarten, Grade 1 and 2 Mathematics Support Documents for Teachers as found on the Manitoba Education math website.

Code: 102

103 Early Years Numeracy Nets **FULL**

Shannon Oikawa

This session will explore how Numeracy Nets, built to support the WNCP curriculum, provides quick, easy to use diagnostic tasks to uncover student misconceptions, how it supports teacher's pedagogical knowledge and shapes student instructional plans to advance learning.

Code: 103

104 Early Years Kindergarten Math **FULL**

Carol Matsumoto

Hands-on activities and ideas to incorporate into your classroom activities. Be prepared to have fun and leave with lots of ideas.

Code: 104

105 Early Years What Goes Around Comes Around **FULL**

Sandy/Brenda Margetts

In keeping with Math Goes Green theme, this hands-on workshop will give participants numerous ideas to integrate environmental education and mathematics. Several of our favourite ideas from past workshops will be "recycled".

Code: 105

106 K–1 Sport'n Math: Developing Early Numeracy Through Kinesthetic/Physical Play and Differentiated Instruction **FULL**

Claude Molgat

- This session will focus on a Kinaesthetic approach to introduce early numeracy concepts and skills to the youngest children in our school system (as well as students with learning disabilities).
- Using differentiated instruction and purposeful physical play, the activity lesson plans being introduced have proven to be extremely effective in getting students of all ability levels to be actively engaged in their own learning. Each Kinaesthetic learning activity is accompanied by a relevant and ready to use paper and pencil activity which is progressive and practical. (Ideally suited for Kindergarten and grade one small group activities such as math centers).
- The goal is to have young students realize the positive impact which numerical competency can have on their school experience and everyday life.

Code: 106

107 Gr. 1–4 Making Math Exciting For All **FULL** Pat Steuart and Dianne Soltess

Come join us for ideas, activities, games and strategies to motivate the teacher and the class. Be prepared to have fun learning and doing with us.

Code: 107

120 Middle Years Decimal Dolls Carole Stanke and Rosemary Martel

Ideas gathered from past experts that connect learning of decimals, proportion and fun. This presentation has been shared within our division and brings a fun element to a fun activity.

Code: 120

121 Middle Years Teaching Children to See through Making Connections **FULL** Nicole Molin

Connect to what is new in Math program. Discover that Math is not a bunch of tricks to teach or facts to memorize, but a way to see, uncover patterns and a journey of discovery. This session will teach you how to use Math Manipulatives to increase you and your students' ability to see and uncover patterns and increase Mental Math Strategies. Learn to calculate an array like 16×16 in your head, double strategies, express a remainder as a fraction and more.

Code: 121

122 Middle Years i-Clickers **FULL** Gary Strick

This session will be showcasing the i-Clickers and how they work. That is about 1/2–1 hour. Then, it will be showing some PowerPoints and websites that can be used with them. Looking at the records created by the i-Clicker software will also be part of it - that's the quick assessment.

Code: 122

123 Middle Years Math Goodies **FULL** Jennifer McGowan

Come and have fun learning ideas and

strategies to energize your classroom. This presentation will focus on practical and motivational tips that will add to your middle years class.

Code: 123

124 Middle Years I Can Use This Tomorrow **FULL** Jerrold Wiebe

Teachers in this session will walk with concrete ideas on how to use constructivist hands-on activities to guide all students to a greater understanding of target topics in math. Software and print material from "Super Source" will be used to develop activating and acquiring strategies to meet the needs of today's diverse class. Sponsored by Pearson Education.

Code: 124

126 Middle Years Word Problems Do Not Equal Problem Solving **FULL** Heather Knight Wells

Teaching students to be critical thinkers involves thoughtful planning and exploration. In this interactive 1/2 workshop, we will explore the meaning of problem solving in the middle years and discuss practical instructional strategies to support this critical thinking. The power of appropriate questioning, open-ended questions and non-routine problems will be investigated.

Code: 126

127 Middle Years SMARTBOARDS and Notebook Software in the Math Classroom **FULL** Tannis Lattanzio

Come and learn some of the basics of Notebook software and SMARTBOARDS as one way to increase student engagement in your middle years classroom.

Code: 127

140 Senior Years Having Fun in Senior Year Mathematics **FULL** Carole Bilyk

Come investigate some ideas for games and other fun activities to use to motivate

students in Senior Years Mathematics. Be prepared to play!

Code: 140

141 Senior Years The Benefits of Oral Mathematics In Senior Year Classes Katarina Schilling

This workshop will consist of: (1) an overview of when and how oral mathematics activities can be used in your class, (2) some examples of oral mathematics activities for each senior year class (3) an opportunity for you to set up one set of oral mathematics activities for your particular class based on the MECY Senior 1–4 Mathematics Learning Outcomes, and (4) discussion about the activities. PLEASE BRING CURRICULUM GUIDE WITH YOU.

Code: 141

142 Senior Years McGraw-Hill Ryerson: New Curriculum, New Resources Wayne Watt

Wondering what the changes are for the new pathways for grade 10–12 and what resources are available? Please join Wayne Watt as he introduces the new Mathematics 10 program from McGraw-Hill Ryerson. Discussion will include the pedagogical changes and the new/deleted topics from grade 10 mathematics, as well as how McGraw-Hill Ryerson addresses these changes in their new Mathematics 10 Foundations and Pre-calculus resource. Participants will be introduced to new Interactive Student Edition, Interactive Teacher's Resource, online resources and more. The session will also include a brief overview of the changes to the Pre-Calculus 11 and Pre-Calculus 12 resources.

Code: 142

143 Senior Years Math XL: A Powerful on-line Homework Tool Designed for the New Gr. 10 Curriculum

This session will explore how This Amazing Tool will create, import and manage

on-line homework assignments and how they are automatically graded, allowing teachers to spend less time marking and more time teaching. Teachers will see how student tutorials and study plans for self-pacing are included. MATH XL has been developed to support the WNCPC approved Pearson resource.

Code: 143

144 Senior Years Technical Vocational Initiative in Various Mb Industries

Brent Hopkins

Brent Hopkins, the Technical Training Supervisor at Manitoba Hydro, will draw on examples from their training programs. This message fits particularly well with Applied Senior Math curriculum. He will be distributing several practical handouts during his presentation that are related to potential careers at Hydro.

Code: 144

146 Getting Through Gr. 12 Pre-Calculus for the First Time

Allison Potter

If you're teaching Gr. 12 Pre-Calculus for the first time, this session is an excellent opportunity to learn the ins and outs of the course. Class notes, worksheets, sample assessments and activities will be shared. As well, information regarding the standards test will also be presented. Be sure to bring a flash drive and any questions you may have regarding the Gr. 12 Pre-Calculus.

Code: 146

160 Elementary: Teaching Elementary Math with the Geometer's Sketchpad V5

Ken Gordon

*****Sisler High School: Only session to be off site*****

Geometer's Sketchpad is a powerful mathematics program that gives students the ability to explore mathematical concepts in a dynamic environment. The latest release of GSP offers many new features such as transformable pictures and integrated support that will

be explored. Teacher's notes and student worksheets will be made available for a variety of activities.

Code: 160

1:00–3:30 p.m.

PM Sessions

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200 Early Years Gr. 4–6 Challenging Student Thinking in Mathematics

Brian Tickle

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Code: 200

201 K–Gr.2 Working with Numbers

Donna Slobodzian

Working with the strands in morning routines, activities, stories and games.

Code: 201

202 Early Years Math Games for Gr. 3 and 4 students

Sherry Perih

This session will explore math games appropriate for grade 3 and 4 students.

Code: 202

204 Early Years Kindergarten Math

Carol Matsumoto

Hands-on activities and ideas to incorporate into your classroom activities. Be prepared to have fun and leave with lots of ideas.

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205 Early Years What Goes Around Comes Around

Sandy/Brenda Margetts

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this hands-on workshop will give participants numerous ideas to integrate environmental education and mathematics. Several of our favourite ideas from past workshops will be "recycled".

Code: 205

206 Gr. 2 Math Games

Debbie Furdyk

Participants will make ten game bags with games that practise strategies for addition and subtraction, counting, odd and even and place value.

Code: 206

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Pat Steuart and Dianne Soltess

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Middle Years Math Goodies **Jennifer McGowen**

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Code: 223

224 Middle Years Fractions, Percents and Decimals

FULL

Darlene Willetts

Interesting games and activities that can help students learn about fractions, decimals and percents in the grade 7 and 8 area.

Code: 224

225 Middle Years Numeracy Nets

FULL

Shannon Oikawa

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Code: 241

242 Gr. 8-9 Math Links 8 and 9: implementation Strategies to Engage Diverse Learners

Ralph Backe

A variety of instructional approaches designed to meet the diverse needs of learners in MathLinks 8 and 9 will be explored. Participants will preview how the activities, lessons,, media elements and interactive technologies integrated throughout McGraw-Hill Ryerson MathLinks 8 and 9 programs will both engage

students and enhance their conceptual understanding. Take home a detailed analysis of the curriculum changes plus instructional strategies and classroom ready activities for differentiating instruction within the new curriculum.

Code: 242

243 Senior Years ExamView: A Comprehensive Assessment Software Solution for the New Introduction to Applied and Pre-Calculus Math 10 Curriculum

FULL

Cam Bennet

This session will provide a hands-on look at how this powerful software can create a paper test in less than 5 minutes, print multiple versions of the same test, enter teacher's won questions, automatically score the tests and prepare a variety of class and student reports. What a time saver! Designed to support Pearson's WNCP approved grade 10 resource.

Code: 243

244 Make Math MakeSense for grade 9

FULL

Jerrold Wiebe

This session will explore constructivist hands-on activities specifically targeted to address the outcomes in the grade 9 curriculum. Rich tasks, that can springboard a topic and engage students at a deeper understanding of a difficult concept, will be shared with participants. Sponsored by Pearson Education.

Code: 244

245 Secondary: What's New in the Geometer' Sketchpad V5

Ken Gordon

Only Session 245 will be at Sisler High School.

Transformable pictures, hot text, marker tools, expanded algebraic and geometric capabilities, improved display and integrated support are some of the many new features in Geometer's Sketchpad V5. We will explore many of these new

features as well as how GSP can be integrated into the new WNCPC curriculum materials. Teacher's notes and student worksheets will be made available for a variety of activities.

Code: 245

246 Getting Through Gr 12 Pre-Calculus for the First Time

Allison Potter

If you're teaching Gr. 12 Pre-Calculus for the first time, this session is an excellent opportunity to learn the ins and outs of the course. Class notes, worksheets, sample assessments and activities will be shared. As well, information regarding the standards test will also be presented. Be sure to bring a flash drive and any questions you may have regarding the Gr. 12 Pre-Calculus.

Code: 246

247 G 2-6 Sport n' Math: Kinesthetic/Manipulative Games Approach to Develop Mental Math Strategies

Claude Molgot

FULL

- This activity session, focussed on developing Mental Math Strategies which enhance the recall of the basic facts, is sure to captivate teachers and their students through the integration of physical activities and games with the number strand outcomes (from

the new 2008 Math Curriculum).

- By using differentiated instruction and a variety of engaging manipulatives, such as : numerical cups, large number cubes, bowling pins, etc, the practical, hands on material presented

is ready on Monday morning.

- In addition to developing competence in essential basic skills, this program will enhance confidence, numerical fluency and a sense of physical well being in your students.

Code: 247

REGISTRATION

MAMT Membership

Full.....\$20.00

Student.....\$5.00

Please note that the membership fees are in addition to the conference fee.

Conference Fees

Full day

MAMT member.....\$28.00

MAMT student member.....\$17.00

Non-member.....\$47.00

Student non-member.....\$21.00

Half day

MAMT member.....\$17.00

MAMT student member.....\$12.00

Non-member.....\$32.00

Student non-member.....\$15.00

Full day conference and membership

MAMT Full.....\$48.00

MAMT student.....\$22.00

On site registration will be limited.

No lunch available on site, Garden

City in close proximity.

Note:

Parking is limited. Please carpool, come early to find a convenient parking spot. People pre-registered may go directly to sessions or displays. Registration postmarked after October 1, 2010 will be assessed \$5.00 late fee. Please indicate choices on registration form, enclose check or money order payable to Manitoba Association of Mathematics Teachers together with stamped self-addressed envelope.

Mail To


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NO POST DATED CHECKS

Contact

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Conference Information

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Grades 2-8


For more information contact:
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