



BCAMT Math In Action Conference

Feb. 17, 2007

Session Descriptions



9:30 – 10:50 Sessions

“ Let's do Eco-math!”

(3-7) -- Cynthia Pratt-Nicholson

Build numeracy skills while enhancing your students' environmental awareness. Eco-math activities combine science, art and writing with all four strands of the mathematics curriculum. See samples of student work and receive templates for your own use.

“Exploring the Rich Depths of Problem Solving” (3-7) -- Catharine Gilmour

Focus will be on why it is important to learn math concepts that are embedded in a problem, different strategies to solve problems and different ways to represent and communicate the way a problem was solved and using a rubric to assess student's work.

“Making Sense of Numeracy”

(K – 3) -- Sandra Ball

Every child deserves the right to make sense of mathematics. Helping children make sense on mathematics is an important role for today's teacher. Being numerate encompasses a large number of skills that contribute to a child's ability to think about and use numbers effectively. Participants will explore ideas and participate in activities that enable children to develop a firm foundation of early number concepts.

“Teaching Integers with Conceptual Understanding”

(8 – 10) -- Rupi Samra / Chris Hunter

Session focuses on teaching strategies that are designed for conceptual understanding of integer operations (adding, subtracting & multiplying). Strategies and resources utilize a process of concrete, pictorial and symbolic methods for the teaching of all operations. Resources include teaching notes, ready to use worksheets and some fun "integer games".

11:00 – 12:30 Sessions

“Paper Polygons – 2 D Mathematics and Art”

(Gr. 3 – 6) -- Carol Pettigrew

Paper polygons are an exciting way to explore 2D shapes. Create up to 14 regular and irregular polygons by folding colourful paper. Learn about angles, symmetry, tessellations and other math connections. Make stunning art too! No scissors, rulers, etc. are used in this work. This is not origami.

“Enhancing Mathematical Thinking with Number Tiles”

(Gr. 3 – 6) – Mignonne Wood

Activities and games using number tiles (0 to 9) are a great way to engage students in mathematical learning. Students enjoy exploring addition, subtraction, multiplication and division and while doing so have opportunities to strengthen their mental math strategies, communicate understanding and reasoning and use flexible thinking skills while they engage in problem solving activities.

“Once Choice, Two Choice, Red Choice, Blue Choice”

(8-12) – Maggie Przyborowska

The math 12 topic of combinatorics – Counting Principle, Permutation, Combinations and Binomial Expansion – appears regularly in both junior and senior math contests. Prepare for the Math 12 Curriculum or brush up on your counting skills to help your younger students better compete in MathCounts and other contests.

“Building Mathematical Learning Communities in Your Classroom”

(Gr. 7-12) -- Fred Harwood

Get your students started well and invigorate both your students and yourself! Learning communities can be built in your classroom by setting the tone and motivational levels with a grass roots approach to number theory, problem solving and assessment for learning applications. This session will focus on ways and topics to build interest in your classrooms.

12:30 – 1:30

LUNCH: “Resumes, Interviews and More!” – Arlene Geres (Human Resource Principal, Surrey School District 36)

1:30 – 3:00 Sessions

“Early Numeracy: Doing Mathematics”

(K – 2) –Janice Novakowski

In early primary (K-2) classrooms, students need to be engaged and playing with mathematical ideas, tools and materials. In this session, we will look at ways to structure mathematical experiences for your students over the school year that take into consideration your strengths as a teacher, the materials you have available and most importantly, the interests of your students. We will discuss the big ideas in mathematics in primary classrooms with lots of ideas for rich, mathematical tasks, problem-solving experiences and using children's literature to enhance your mathematics program.

“Gee, this is Math?” (Tips & Tricks)

(3-7) -- Ray Appel

Ray will give you a handful of math tips and tricks to help support whatever math program you are using. These math tips and tricks will support the struggling learner, while provide some enrichment for the bright/gifted learners in the classroom. Ray will focus on six main areas that challenge teaching and learning in the math classroom: Timing (Ray can get you back at least 2 weeks of teaching time!), Invented strategies (Get the kids to come up with them), Homework (Let's focus on what's important), Assessment (make it easy, yet thoughtful), Goal setting (cool templates!), and Graphic Organizers (not worksheets). Blackline masters included!

“Scale the Universe”

(6-12) -- Teena Della

Biology and Astronomy numbers are used in this workshop with the aim of helping students learn some practical applications of scientific notation. Participants will prepare several activities for use in the classroom on Monday and receive a useful resource book from NASA (including the workshop activities and as well as others.

“Can you use Statistics and Fun in the same sentence?”

(4 – 7) -- Jim Mennie

Find out how you can teach the skills of data management and analysis by using your students' own data. Data collection is a snap when your students respond to the online Census at School questionnaire. It provides a ready-made spreadsheet of raw data that the kids relate to because it's their own responses. You can teach mean, median and mode while developing spreadsheet skills such as sorting and graphing. A set of online learning activities supports the teaching of other math concepts as well.