



BCAMT Mathematics Conference: TEACHER TO TEACHER



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8:00 - 8:30	Registration (Coffee, Goodies and browse through publishers' displays)			
8:30 - 9:15	Welcome & Keynote Event ANN ANDERSON			
	K - 2	3 - 5	6 - 8	9 - 12
9:30 - 11:15	Building a Solid Foundation – The BIG 3 Subitizing, Partitioning, and Patterning <i>Sandra Ball</i>	Inspiring Math Lessons Using Picture Books Use rich literature to explore Mathematical concepts <i>Marc Garneau</i>	Games in Math Class Explore games to deepen understanding and take home a resource package. <i>Alice White</i>	Playing with Numbers – Developing Estimation Skills and Quantitative Literacy through Fermi Problems <i>Conrad Nickels</i>
11:15 – 12:15	LUNCH (Hub) - Eat it there or take with you to the lunch hour talk! LUNCH HOUR TALK: "Resumes, Interviews & more!" MATH RESOURCE EXHIBIT <i>Door prizes donated by the BCAMT, Surrey School District and exhibitors.</i>			
	K - 2	3 - 7	6 - 8	9 - 12
12:15 – 2:00	Ten Frames – A Foundational Tool Using ten frames to develop understanding of numbers <i>Selina Miller</i>	Using Technology to Support Communication in Mathematics Using iPad apps learn to capture students' thinking <i>Braunwyn Thompson</i>	Fun with Fractions and Proportional Reasoning! Using fraction circles and Cuisenaire rods to develop strong conceptual understanding. <i>Nikki Lineham</i>	Creating a Thinking Classroom Let's engage our students in Mathematics! <i>Mike Pruner</i>
2:00	Conference Wrap-Up / Door prizes donated by Surrey School District and the BCAMT Conference Evaluation forms - <i>Meet in the Hub</i>			

SESSION DESCRIPTIONS

GRADES K – 2

Building a Solid Foundation – The BIG 3

(Sandra Ball)

The success in numeracy depends on the child's capacity to subitize, to partition and to pattern. These 3 fundamental concepts are essential to build a solid mathematical foundation in early primary. Our young learners should know what it looks like to behave like a mathematician – seeing sets without counting, breaking up sets and putting them back together again and patterning and predicting. Come and explore 'The Big 3' that build a solid foundation of mathematics in the early grades.

Ten Frames – A Foundational Tool

(Selina Miller)

Understanding number in the context of ten is critical in the younger grades. Ten Frames is a tool that enables students to build, visualize and represent quantities in that context. Attend the session and experience activities and lesson ideas that can be easily implemented into your classroom! Copies of resources will be provided.



GRADES 3 – 5

Inspiring Math Lessons Using Picture Books

(Marc Garneau)

Picture books are not only an engaging way to begin a lesson, they also can provide a context in which to explore mathematical concepts, both in the story and in problems that can follow. Specific books and activities will be explored, as well as web resources of where to find more ideas.

Using Technology to Support Student Communication in Mathematics

(Braunwyn Thompson)

How can we use iPads and current apps to promote student thinking and engagement in our mathematics classroom? This session will focus on several apps that can provide a means for students to communicate their strategies

GRADES 6 – 8

Games in Math Class

(Alice White)

Learn and play a variety of engaging games that can be used in the classroom to practice math skills and facts, discover new mathematical concepts, and deepen conceptual understanding. We will explore how these games can be adapted and extended to suit a variety of learners. Attendees will gain first-hand experience playing games and receive a resource package; you will leave feeling ready to implement games in your own classroom.

Fun with Fractions and Proportional Reasoning!

(Nikki Lineham)

Use fraction circles and Cuisenaire rods to develop strong conceptual understanding of fractions and proportional reasoning. We will use hands-on activities to learn about: ordering, adding, subtracting, multiplying and dividing with fractions. When we teach math with manipulatives, students are far more likely to engage in their learning and retain it!



GRADES 9 – 12

Creating a Thinking Classroom:

(Mike Pruner)

Let's look at how the environment, the structure of a lesson, and the problems you give work together to create an ENGAGED and THINKING mathematics classroom.

Playing with Numbers – Developing Number Sense & Quantitative Literacy through Fermi Problems:

(Conrad Nickels)

and thinking during mathematical inquiry through screencasting (Examples: Shadow Puppet, ShowMe). We will look at student samples and try some activities of our own. If you have access to mobile technology at your school, this session will provide lots of ideas that you can implement. Bring your own device if possible.

How many Lego blocks would you need to build a replica of yourself?
Estimation is a powerful tool that can be used to help understand the world around us, and Fermi problems are an excellent method for its development. Fermi problems are a fun, social way for students to develop quantitative literacy as they inquire, approximate, and develop strategies to solve problems through the power of estimation. In this session you will explore first-hand the power of Fermi problems as a learning tool, acquire a number of strategies for implementing them, and take away a collection of problems for your classroom.