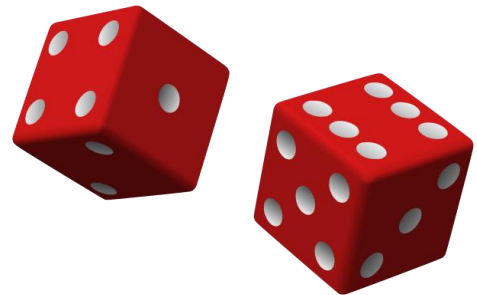


Elementary Math Focus Afternoon

January 26 2018
Grauer Elementary

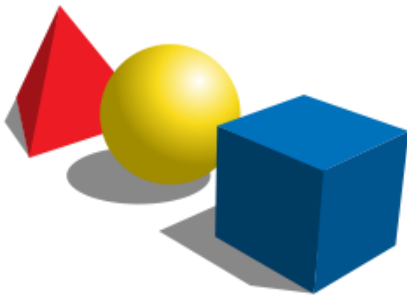
- 12:30 Welcome
Overview and Updates regarding BC Curriculum and
Richmond School District Initiatives
-Janice Novakowski
- 1:00 Session #1
- 2:00 Session #2
- 2:55 End of program
Prize draw winners to be announced over the PA
system – please choose from items on the table in
the gym



*Please help out by stacking a chair or two at the end of the day in
the session rooms and in the gym.*

Coffee, tea, cookies and fruit will be available in the gym.

There is a water filling station just outside of the gym.



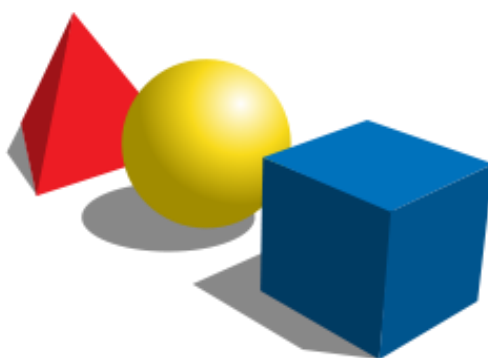
***Please take some time to view
the various displays shared by
each school participating in this
math focus afternoon.***

*Looking for resources to support
the financial literacy component of the math curriculum? Curious about
the “Talk With Our Kids About Money” day in April?*

A representative from the Canadian Foundation for Economic Education
will be attending our elementary math focus afternoon and will have
resources on display.

Schedule of Sessions

Session #1 – 1:00-1:55pm	Session #2 – 2:00-2:55pm
Using Provocations to Deepen Mathematical Thinking (gr 1-5) with Michelle Hikida	Creating a Balanced Math Program (gr 1-4) with Michelle Hikida
Favorable Conditions in an Intermediate Math Class (gr 4-7) with Gillian Ewart	Three-Act Tasks (gr 4-7) with Gillian Ewart
Math for All – Adapting & Modifying (K-7) with Kyle Greaves	Math for All – Adapting & Modifying (K-7) with Kyle Greaves
Starting Your Day with Black Mat Play (K) with Marie Thom	Starting Your Day with Black Mat Play (K) with Marie Thom
New Math Routines in French Immersion (K-3) with Carrie Bourne	New Math Routines in French Immersion (4-7) with Carrie Bourne
Integrating Math & Science through Inquiry (grades 4-7) with Neal Campbell	Integrating Math & Science through Inquiry (grades 4-7) with Neal Campbell
Rich Investigations (grades 2-7) with Fred Harwood	Visual Patterns and Visualizing Patterns: Growing Algebraic Understanding (gr 5-7) with Fred Harwood
Integrating the iPad in Intermediate (4-7) with Chris Loat	Integrating the iPad in Primary (K-3) with Chris Loat



Session Descriptions and Locations

Session #1 – 1:00-1:55 pm

Starting Your Day with Black Mat Play: Easy to Make Tasks for Kindergarten **Room #110**
Marie Thom *Curricular Competencies and Content*

In this session there will be lots of ideas for using black mats and classroom materials to introduce math concepts such as sorting, counting, patterning, seriating, counting on, subitizing and more. Teachers will receive a package of templates to support the black mat math materials. Tips for what to look for and ways to keep track of what children say and do will be given.

Using Provocations to Deepen Mathematical Thinking (1-5) **Multipurpose Room**
Michelle Hikida *Inquiry, Curricular Competencies and Content*

Provocations are open-ended invitations to provoke. They are intended to provoke interest, questions, theory making, creativity and most importantly deep thinking. Provocations should inspire explorations and discovery. Come and see classroom examples of provocations and hear how and why different provocations are created to deepen student understanding and promote playing with mathematical ideas.

Integrating Math and Science Through Inquiry (gr. 4-7) **Room #208**
Neal Campbell *Inquiry, Curricular Competencies*

What can circle graphs tell us about evolution? How can decimals and energy be studied together? In this session, we will engage in hands-on experiments and explore ways to integrate the Math and Science big ideas and curricular competencies through inquiry.

New Math Routines in French Immersion (K-3) **Room #105**
Carrie Bourne *Curricular Competencies*

In this session we will explore and participate in a variety of new, fun, and exciting routines such as Splat!, Cube Conversations, Estimation 180, Clothesline, and Visual Patterns that can be incorporated in the French Immersion classroom. Teachers will have opportunities to connect, collaborate, and communicate with one another, and connections will be made to the BC Math curriculum.

Math for All – Adapting and Modifying **Room #207**
Kyle Greaves, District Support Team

This session is geared towards Classroom Teachers, Resource Teachers and Educational Assistants. During the session, we will discuss effective assessment and planning for ALL students but specifically for students with exceptional needs. In addition, participants are encouraged to come with one or two students in mind so that they will be able to begin to plan math units and lessons to involve ALL

students. There will be opportunities for participants to share ideas and strategies that they have used successfully in supporting students with exceptional needs.

Rich Investigations (grades 2-7)

Room #210

Fred Harwood (Math Mentor Teacher) *Curricular Competencies & Communication*
Inquiry can be a dynamic way to embed practice of basic skills while engaging students in problem solving, math reasoning and communication. Core and curricular competencies are engaged well within these structures. Come experience and discuss ways to enhance arithmetic skills within inquiry questions. Examples will be from an intermediate classroom but can be adapted to primary.

Favorable Conditions in an Intermediate Math Class (gr 4-7)

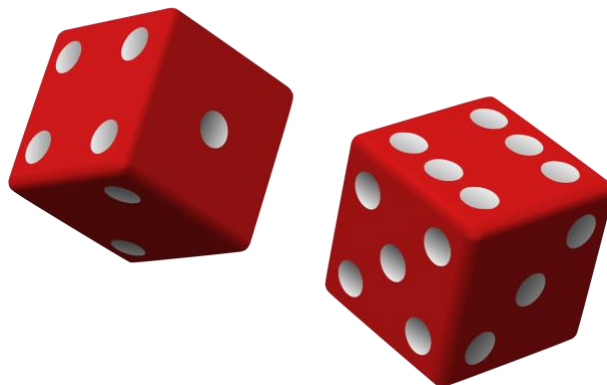
Room #212

Gillian Ewart *Curricular Competencies and Content*
What does a balanced numeracy program look like in an intermediate class? What conditions and routines help students gain a deeper understanding of the concepts while developing positive life-long habits of mind? In this session, I will share some practical ideas and norms that can empower your students as mathematicians and get them excited about learning math.

Integrating the iPad in Intermediate Math (gr 4-7)

Room #209

Chris Loat *Curricular Competencies, Technology*
In this workshop, participants will learn about a number of apps and features that can be integrated in a variety of grade 4-7 Math lessons. We will look at iPad apps, including Shadow Puppet, Skitch, Number Line, Partial Product Finder, and / or Pic Collage, that allow students to demonstrate and share their learning in various ways. We will also examine some built in accessibility features of the iPad (e.g. voice dictation), and different ideas around workflow (how to get the work off the iPad).



Session #2 – 2:00-2:55 pm

Starting Your Day with Black Mat Play: Easy to Make Tasks for Kindergarten Room #110

Marie Thom

Curricular Competencies and Content

In this session there will be lots of ideas for using black mats and classroom materials to introduce math concepts such as sorting, counting, patterning, seriating, counting on, subitizing and more. Teachers will receive a package of templates to support the black mat math materials. Tips for what to look for and ways to keep track of what children

Note: This is a repeat session.

Creating a Balanced Math Program (Grades 1-4) Multipurpose Room

Michelle Hikida

Inquiry, Curricular Competencies and Content

Mental Math, provocations, mathematical inquiry, problem solving, guided Math, counting collections, games, high yield routines. There are so many rich mathematical opportunities to explore with our students, but how do we balance them all? Come and see some examples of how to incorporate many of these components into a balanced Math program.

Three-Act Tasks in an Intermediate Math Class (gr 4-7) Room #212

Gillian Ewart

Curricular Competencies and Content

What is a three-act task? How do these rich tasks support mathematical thinking and reasoning and increase engagement and excitement about learning mathematics? In this session I will share resources and examples of three-act tasks that you can use in your intermediate classroom.

Math for All – Adapting and Modifying Room #207

Kyle Greaves, District Support Team

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New Math Routines in French Immersion (gr 4-7)

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Carrie Bourne

Curricular Competencies

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Visual Patterns and Visualizing Patterns: Growing Algebraic Understanding (grades 5-7) Room #210

Fred Harwood (Math Mentor Teacher)

Inquiry, Curricular Competencies

Multiple representations have grown children's understanding of arithmetic.

Connecting growing patterns, pictures, tables, graphs and algebra will also deepen mathematical understanding. We will 'see' how the patterns connect through these various representations in powerful ways.

Integrating the iPad in Primary Math (K-3)

Room #209

Chris Loat

Curricular Competencies, Technology

In this workshop, participants will learn about a number of apps and features that can be integrated in a variety of K-3 Math lessons. We will look at iPad apps, including Shadow Puppet, Skitch, Number Pieces, Number Line, Number Frames, and / or Pic Collage, that allow students to demonstrate and share their learning in various ways. We will also examine some built in accessibility features of the iPad (e.g. voice dictation), and different ideas around workflow (how to get the work off the iPad).

School map and room numbers

