
Primary Mathematicians

Presented by Jen Barker

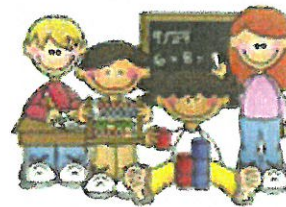
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Contact Info:

Email: barker_jennifer@surreyschools.ca

Twitter: @Barkerjbarker

Website: www.meaningfulmathmoments.com



What is a MATHEMATICIAN:

What are the Mathematical Curricular Competencies or Habits of Mind?:

ATTITUDE (Personal and Social)

- build a safe learning environment
- provide “just right” activities - entry point for all students - each one should be able to engage in productive struggle
- mistakes need to be seen as opportunities for learning
- use engaging materials and literature
- connect activities to students’ interests
- whenever possible make real-world connections
- meaningful activities - not busy work

THINKING (Reasoning and Analyzing)

- time to visualize
- ask students to explain what is being asked of them - remove the numbers first
- reconnect to what they know - What does this remind you of? What do you know? What could you try?
- think/pair/share or back to back then face to face
- no calling out - secret code to show you have a strategy

UNDERSTANDING (Understanding and Solving)

- use strategies you know
- make a plan
- solve for the answer
- apply another strategy
- teachers should be making the thinking (strategies) visible - build anchor charts

COMMUNICATING (Communicating and Representing)

- provide talk time through intentional collaboration
- ensure students can show what they know in many ways (Developmentally - Concretely with materials, representing with illustrations/pictures, and symbolically using numbers and symbols)
- use technology when it makes sense
- teacher need to ask effective questions

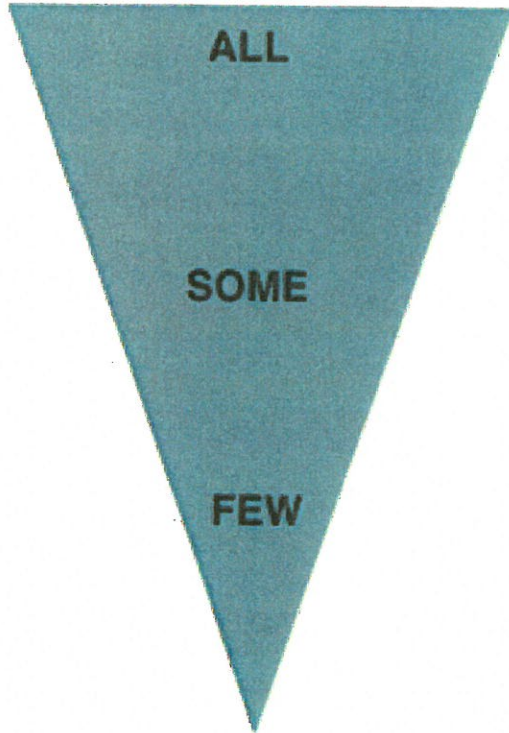
*** Note: This link has great questioning suggestions http://www.edu.gov.on.ca/eng/literacynumeracy/inspire/research/CBS_AskingEffectiveQuestions.pdf

CONNECT AND REFLECT

- teachers need to build connecting time into the lesson structure
 - Thought provocation (Book, Picture, Manipulatives)
 - Assign the Learning Task
 - Exploration/ Conferencing/ Assessing
 - Reflection/ Sharing - Students share the strategies they used. Teacher assist with naming strategies and asking question to nudge learning forward and assist students in making connections.

BIG IDEA:

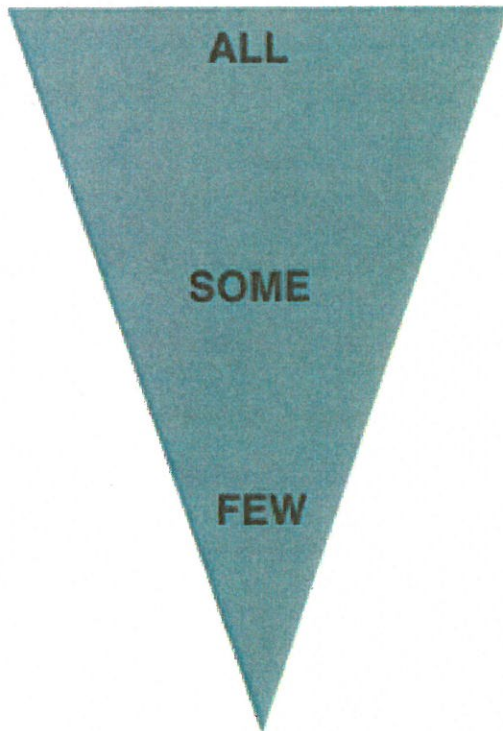
Learning Intentions for:



GUIDING QUESTIONS:

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