

Overview of BC's Redesigned Mathematics Curriculum

Primary Focus

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Major themes in the redesigned curriculum

- Big Ideas
- Concept-Based
- Personalized Learning
- Competency-Driven
- Inquiry-Based
- Teaching and Learning through the First Peoples Principles



Mathematics

K 1 2 **3** 4 5 6 7 8 9

Introduction | Goals and Rationale | What's New | Curriculum Overview

Core Competencies

C Communication, T Thinking, PS Personal & Social

Big Ideas

- **Patterning:** We use patterns to represent identified regularities and to make generalizations.
 - Simple questions to support inquiry with students:
 - How are these patterns alike and different (e.g., increasing and decreasing)?
 - How are zero value patterns revealed in large numbers?
 - How do numbers help us describe patterns?
- **Regular increases and decreasing patterns** can be identified and used to make generalizations.
- **Standard units** are used to describe, measure, and compare attributes of objects/shapes.
- **The likelihood of possible solutions** can be examined, compared, and interpreted.

Learning Standards

Curricular Competencies	Content
<p>Students are expected to be able to do the following:</p> <p>Reasoning and analyzing</p> <ul style="list-style-type: none">▶ Use reasoning to explore and make connections▶ Estimate reasonably▶ Develop mental math strategies and abilities to make sense of quantities▶ Use technology to explore mathematics▶ Model mathematics in contextualized experiences <p>Understanding and solving</p> <ul style="list-style-type: none">▶ Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving▶ Visualize to explore mathematical concepts▶ Develop and use multiple strategies to engage in problem solving▶ Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures	<p>Students are expected to know the following:</p> <ul style="list-style-type: none">◆ number concepts to 1000◆ fraction concepts◆ addition and subtraction to 1000◆ addition and subtraction facts to 20 (emerging computational fluency)◆ multiplication and division concepts◆ increasing and decreasing patterns◆ pattern rules using words and numbers, based on concrete experiences◆ one-step addition and subtraction equations with an unknown number

Richmond School District math and science blog

<http://blogs.sd38.bc.ca/sd38mathandscience/>

BCAMT Reggio-Inspired Mathematics blog

http://janicenovkam.typepad.com/reggioinspired_mathematic/