

## Resources to consider, aligned with BC Curriculum

Please contact Jennifer Dionne for more information [jdionne@sd57.bc.ca](mailto:jdionne@sd57.bc.ca)

<b>Math First Peoples Teacher Resource Guide</b>	FNESC Elementary & Secondary	The <a href="#">Math First Peoples Teacher Resource Guide</a> is designed for teachers of Mathematics in British Columbia . It has been developed by the First Nations Education Steering Committee (FNESC), supported by the BC Ministry of Education and it is grounded in the view that increased student success can be achieved through adjustments in pedagogy and approach that make mathematics feel more inclusive and engaging.	*available to download for free <a href="#">Math First Peoples (2020) – First Nations Education Steering Committee FNESC</a>
<b>In Our Own Words Bringing Authentic First Peoples Content to the K-3 classroom</b>	FNESC	The teacher resource guide In Our Own Words, K-Gr. 3 Authentic Resources (2012, revised 2020) has been developed to offer teachers information and guidance about how to incorporate authentic First Peoples materials into their instruction and assessment practices. Inside, you will find lesson plans, curriculum connections, assessment resources and suggested texts.	*available to download For free <a href="#">In Our Own Words – Bringing Authentic First Peoples Content to the K-3 Classroom (2020) – First Nations Education Steering Committee FNESC</a>
<b>MathUp French and English</b>	Rubicon K-8	<b>MathUP Classroom</b> is a comprehensive, online, instructional solution that helps build teachers' knowledge and understanding of mathematics so that they can better help their students.	<b>*30-day trial Available</b> <b>*district licenses May be available</b>
<b>My Math Path</b>	Nelson 1-7	Based on the Singapore <b>Math</b> approach, which focuses on mastery of a limited number of concepts at a time using a purposeful sequence of topics.	*30-day free trial available
<b>Mathology</b>	Pearson K-8	Mathology.ca is currently a <b>K-6 on-line Teacher Resource</b> that helps you search for curriculum-focused lessons, teach using on-line tools that help bring Early Math to life for students, and easily plan lessons to support in-class or virtual learning	*30-day free trial available <b>Practice workbooks now available for 7 &amp; 8.</b>
<b>Math Place</b>	Scholastic 1-3	<b>Math Place</b> is a comprehensive classroom resource that focuses on balanced instruction through conceptual understanding and foundational math skills. 3 modules per grade: Number & Operations, Spatial Sense, and Patterns & Relations/Data & Probability Embedded professional learning: math content knowledge, recent research, assessment criteria, and First Peoples perspectives are woven throughout teaching materials Purposeful discussions and 'math talks' in every lesson Promotes positive attitudes and growth mindsets towards math	*14-day free trial available

<p><b>Carol Fullerton</b></p>	<p>Mind-Full Math Resources K-9</p>	<p><b>Primary</b></p> <ul style="list-style-type: none"> <li>• Good Questions for Kindergarten and Grade 1: Lessons for Building Number Sense</li> <li>• A Year of Good Questions: Open- ended Math Problems for Grades 2-4</li> <li>• Bonnes Questions: une annee de bonnes taches pour les eleves de 2e a 4e</li> <li>• More Good Questions: A Year of Open-ended Math Problems for Grades 2-4</li> <li>• Encore Plus de Bonnes Questions 2e a 4e</li> <li>• Place Value in Primary: Developing Number Sense in K-2</li> <li>• Mastering the Facts: Addition</li> <li>• Mastering the Facts: Subtraction</li> <li>• Sums and Differences for Grades 1 &amp; 2</li> <li>• Sums and Differences for Grades 2&amp;3</li> </ul> <p><b>Intermediate (4-9) Resources</b></p> <ul style="list-style-type: none"> <li>• Good Questions: A Year of Open-ended Math Problems for Grades 5-8</li> <li>• Bonnes Questions une annee de bonnes taches mathematiques pour les eleves de 5e a 8e annee</li> <li>• More Good Questions: A Year of Open-ended Math Problems for Grades 5-8</li> <li>• Encore Plus De Bonne Questions 5e a 8e</li> <li>• Mastering the Facts Multiplication 2<sup>nd</sup> Edition</li> <li>• Multiplicative Thinking for Grades 3-8</li> <li>• Cuisenaire Rods Rock for Grades 4-7</li> <li>• Fair Shares: Teaching Division in Grades 4-7</li> <li>• Proportional Reasoning in Intermediate Grades 4-8</li> <li>• Algebraic Thinking in Grades 5-9</li> </ul>	<p>*Some items available to download for free <a href="http://ecwid.com">Free Downloads! (ecwid.com)</a></p> <p>*Most of these are available to borrow from the DLC</p>
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<b>Educating Now</b> <b>Nikki Lineham</b>	Online resource 4-8	Video tutorials and lesson plans <i>Learn a better way to teach the new curriculum to make it easy, fun and more meaningful for your students. Get easy to follow daily lessons and videos from an established math expert.</i>	*free sample lessons available <a href="#">Educating Now – The Art of Teaching Math</a>
<b>*New Resource*</b> <b>Elementary Coast Metro Math Project</b>	Online Resource K-7	A team of teachers from the lower mainland math contacts collaborated over the summer of 2022 using suggested elements from the Coast Metro Consortium to develop a shared vision for elementary mathematics education, grounded in the BC K-7 mathematics curriculum.	*free

Numeracy Is the ability to understand and apply mathematical concepts, processes, and skills to solve problems in a variety of contexts. *BC Curriculum*

Literacy and numeracy are fundamental to all learning. While they are commonly associated with language learning and mathematics, literacy and numeracy are applied in all areas of learning. *BC Curriculum*

Number Sense can be described as “good intuition about numbers and their relationships. It develops gradually as a result of exploring numbers, visualizing them in a variety of contexts, and relating them in ways that are not limited by traditional algorithms’ (Howden, 1989).

Computational Fluency is defined as having efficient, flexible, and accurate methods for computing (NCTM, 2000). Fluency develops over time and begins with number sense.

# SD57 Recommended Online Instructional Routines

Routines that support mathematical thinking & Learning

Splat

<http://www.stevewyborne.com/?p=893>

Notice and Wonder

<http://nctm.org/Classroom-Resources/Problems-of-the-Week/I-Mptoce-I-Wonder/>

Which One Doesn't Belong

<https://wodb.ca>

Number Talk Images

<http://ntimages.weebly.com>

Estimation 180

[Estimation 180 – Building Number Sense](#)

Fraction Talks

<http://fractiontalks.com>

Clothesline Math

<http://clotheslinemath.com>

Counting Routines

<https://Tedd.org/mathematics/>

Numberless Word Problems

<https://numberlesswp.com>

Same but Different

<https://www.samebutdifferentmath.com>

Would You Rather Math

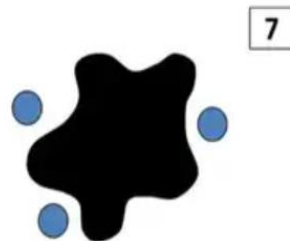
<https://wouldyourathermath.com>

Always, Sometimes, Never

<http://asmath.blogspot.com>

Instructional Routines encourage mathematical thinking and discourse. They provide opportunities for all students to participate and feel successful.

How many dots are under the Splat?



## SD 57 Recommended Problems and Tasks

Math Problem of the Week-University of Waterloo

<https://www.cemc.uwaterloo.ca/resources/potw.php>

Numeracy Tasks-Dr. Peter Liljedahl

[Peter Liljedahl » Numeracy Tasks](#)

Robert Kaplinsky-Problems

[Lessons - Robert Kaplinsky](#)

NRICH – University of Cambridge

<https://docs.google.com/document/d/1xi6y4UjyobVDIiwGS-CIf-g7-Z-q5lieIcgyyaYxXnl/edit#bookmark=id.4pajqzcp3yl>

