

## Island Numeracy Network ~ supporting Continuity of Learning

Document with links created Spring 2020



### Taking Math Outdoors:

<https://www.youcubed.org/resources/neighborhood-numbers-k-5-video/>  
<https://meganzeni.com/playful-learning-outdoors-in-april-during-covid-19>  
<https://sites.google.com/powayusd.com/math-walks/home>

### Families:

Math at home links: [https://portal.sd38.bc.ca/public/a1uioa8/Pages/SD38-Math-at-Home.aspx#/="](https://portal.sd38.bc.ca/public/a1uioa8/Pages/SD38-Math-at-Home.aspx#/=)

Weekly math plans ~weekly math tasks for each of the following grade bands: K-2, grades 3-5, grades 6&7. These will include five tasks for each week connected to one foundational math concept and big idea with connections to BC curricular content and competencies. They are intended to be shared with families as one choice for their week's learning opportunities in mathematics.

<https://blogs.sd38.bc.ca/sd38mathandscience/bc-2020-continuity-of-learning/>

Math Discussions: <https://mathbeforebed.com/>

CEMC at Home: <https://cemc.uwaterloo.ca/resources/cemc-at-home.php>

### Games:

<https://mathforlove.com/2018/08/math-game-short-list-2018/>

Pearson Investigation games:

<https://media.pk12ls.com/curriculum/math/Investigations3/gamecenter/english/index.html#>

Set game online: <https://www.setgame.com/set/puzzle>

NCTM illumination: <https://illuminations.nctm.org/Games-Puzzles.aspx>

Math Riddles: <https://www.getriddles.com/math-riddles/>

Young Mathematicians at home: <http://youngmathematicians.edc.org/games/>

Numeracy Lab: <https://numeracylab.edublogs.org/partner-games/>

### Thinking and talking prompts from images:

Illustrative Maths: <https://www.illustrativemathematics.org/distance-learning/>

<https://bit.ly/3ftMJvx>

Math Anywhere: <https://www.mathanywhere.org/idea-gallery/>

Creative Math prompts: <http://www.5280math.com/noticing-and-wondering/>

## Direct links to district Numeracy Pages- What resources are provided?

BC Numeracy Network - Resources to Support Continuity of Learning page:

<https://sites.google.com/view/bc-numeracy-network/home/resources-to-support-continuity-of-learning?authuser=0>

Comox Valley Schools :Learn 71 ~ <http://learn71.ca/online/>

Nanaimo Ladysmith: <https://nlpslearns.sd68.bc.ca/>

Sooke: <https://www.sd62.bc.ca/covid-19/resources-parents/learning-continuity-information-families>

<https://www.sd62.bc.ca/programs-services/curriculum-and-learning>

Cowichan Valley: <https://sd79.bc.ca/services/curriculum/curriculum-resources-k-12/numeracy/>

## Elementary Mathematics Instruction

Assessment and instruction ~ Weekly Priority Learning Plans:

<https://blogs.sd38.bc.ca/sd38mathandscience/bc-2020-continuity-of-learning/>

Online resources for French Immersion: [https://blogs.sd38.bc.ca/sd38mathandscience/wp-content/uploads/sites/14/2020/05/SD38\\_French\\_math\\_online\\_resources.pdf](https://blogs.sd38.bc.ca/sd38mathandscience/wp-content/uploads/sites/14/2020/05/SD38_French_math_online_resources.pdf)

TVO Kids Mathematics	<a href="https://www.youtube.com/channel/UCxNAcNMKHCXHY9dwVOEIKpQ">https://www.youtube.com/channel/UCxNAcNMKHCXHY9dwVOEIKpQ</a>
Desmos Activities	<p><a href="https://teacher.desmos.com/collection/5d0a8f2573c4eb0e5cb25373">https://teacher.desmos.com/collection/5d0a8f2573c4eb0e5cb25373</a>  <a href="https://teacher.desmos.com/popular">https://teacher.desmos.com/popular</a></p> <p>Google sheet of Desmos activities:  <a href="https://docs.google.com/spreadsheets/d/105Y6BjzNpAnhvxJR4qngonYdFgQtgilm26VV1EHb6BE/edit?usp=sharing">https://docs.google.com/spreadsheets/d/105Y6BjzNpAnhvxJR4qngonYdFgQtgilm26VV1EHb6BE/edit?usp=sharing</a></p>
Stories based on the storytelling of Aboriginal peoples	<a href="https://www.sfu.ca/mathcatcher/StoriesMovies.html">https://www.sfu.ca/mathcatcher/StoriesMovies.html</a>
Greg Tang	<p><a href="https://gregtangmath.com/resources">https://gregtangmath.com/resources</a>  <a href="https://gregtangmath.com/virtual">https://gregtangmath.com/virtual</a>  <a href="https://gregtangmath.com/challenges">https://gregtangmath.com/challenges</a></p>
Fawn Nguyen K-8	<p>Independent student work and resources. Printable units embedding instructional routines.  <a href="https://docs.google.com/document/d/17JFCB_1AtnqyfXyFmuR9DUDxqUvcNIL9zySYsCaFh2U/edit">https://docs.google.com/document/d/17JFCB_1AtnqyfXyFmuR9DUDxqUvcNIL9zySYsCaFh2U/edit</a></p>
Nrich Maths site	<a href="https://nrich.maths.org/">https://nrich.maths.org/</a>
Build Math Minds	<a href="https://buildmathminds.com/freebies/">https://buildmathminds.com/freebies/</a>
YouCubed at Home	<p><a href="https://www.youcubed.org/resource/youcubed-at-home/">https://www.youcubed.org/resource/youcubed-at-home/</a>  <a href="https://www.youcubed.org/online-student-course/">https://www.youcubed.org/online-student-course/</a></p>
Virtual Manipulatives	<p><a href="https://toytheater.com/category/teacher-tools/virtual-manipulatives/">https://toytheater.com/category/teacher-tools/virtual-manipulatives/</a>  <a href="https://www.coolmath4kids.com/manipulatives">https://www.coolmath4kids.com/manipulatives</a>  <a href="https://mathigon.org/tangram">https://mathigon.org/tangram</a>  <a href="https://mathigon.org/factris">https://mathigon.org/factris</a></p>
<p>The Math Learning Center</p> <ul style="list-style-type: none"> <li>● Pattern shapes</li> <li>● Number frames</li> <li>● Time</li> <li>● Number Pieces</li> <li>● Fractions</li> <li>● Geoboard</li> <li>● Number Rack</li> </ul>	<p><a href="https://www.mathlearningcenter.org/resources/apps">https://www.mathlearningcenter.org/resources/apps</a>  <a href="https://apps.mathlearningcenter.org/pattern-shapes/">https://apps.mathlearningcenter.org/pattern-shapes/</a> Consider presenting young learners with the challenge of building a triangle from other shapes – a great creative problem-solving activity that can be done in a hands-on environment. Now, consider presenting the same challenge with an infinite number of blocks and infinitely large work area. Students can now explore this idea in new and unique ways and can manipulate their creations to represent their thinking in multiple ways.</p>

Math for Love website	<a href="https://mathforlove.com/">https://mathforlove.com/</a> <a href="https://mathforlove.com/lesson-plan/games/">https://mathforlove.com/lesson-plan/games/</a> <a href="https://mathforlove.com/lesson-plan/rich-tasks/">https://mathforlove.com/lesson-plan/rich-tasks/</a> Some free resources are available including a weekly email with at home suggestions: <a href="https://us5.list-manage.com/subscribe?u=ec800e78e9062d9a9af4fe5b2&amp;id=d4bc831ead">https://us5.list-manage.com/subscribe?u=ec800e78e9062d9a9af4fe5b2&amp;id=d4bc831ead</a>  Blogpost about mathematical conversations at home: <a href="https://mathforlove.com/2020/04/math-conversations-at-home/">https://mathforlove.com/2020/04/math-conversations-at-home/</a>
Exploding Dots: Puzzles and Activities	<a href="https://gdaymath.com/wp-content/uploads/2013/11/EXPLODING-DOTS-for-March-2020.pdf">https://gdaymath.com/wp-content/uploads/2013/11/EXPLODING-DOTS-for-March-2020.pdf</a>
Math Anywhere Molly Daley	<a href="https://www.mathanywhere.org/printables/">https://www.mathanywhere.org/printables/</a>

### **Secondary Mathematics Instruction**

More Math with People: [https://pdfs.cpm.org/articles/cpm\\_remote\\_learning.pdf](https://pdfs.cpm.org/articles/cpm_remote_learning.pdf)

Teaching and using mathematics to make sense of the world:

<https://www.nctm.org/Coronavirus-and-Pandemics-Math-Resources/>

Desmos Activities	9-12 activities: <a href="https://teacher.desmos.com/collection/5e45d3ab76af066a7b1a3222">https://teacher.desmos.com/collection/5e45d3ab76af066a7b1a3222</a>  Dan Meyer advises us to <i>do less</i> : Give students something to think about, and allow students to make connections. The “connections’ can be teacher to student, student to student, and student to math. A webinar link on open lessons: <a href="https://zoom.us/rec/play/vMd7dbr5rmg3H9bB4wSDUP8tW9W1KKish3Aa_vBeyx2wBnFQM1LwYeYbZLCmk4_RXafBUazWJyJ9Sd0L?autoplay=true&amp;startTime=1584293277000">https://zoom.us/rec/play/vMd7dbr5rmg3H9bB4wSDUP8tW9W1KKish3Aa_vBeyx2wBnFQM1LwYeYbZLCmk4_RXafBUazWJyJ9Sd0L?autoplay=true&amp;startTime=1584293277000</a>
Knowledge Hook	Grades 3-10 Math- Now free till June <a href="https://app.knowledgehook.com/app/Login">https://app.knowledgehook.com/app/Login</a>
Open access to Pearson K-12 resources	<a href="https://www.pearsoncanadaschool.com/index.cfm?locator=PS3eZw&amp;utm_source=Twitter&amp;utm_medium=PPC&amp;utm_campaign=2020TW_SPR30_AtHomeLP_V1">https://www.pearsoncanadaschool.com/index.cfm?locator=PS3eZw&amp;utm_source=Twitter&amp;utm_medium=PPC&amp;utm_campaign=2020TW_SPR30_AtHomeLP_V1</a>
CEMC Courseware	<a href="https://www.cemc.uwaterloo.ca/resources/courseware/courseware.html">https://www.cemc.uwaterloo.ca/resources/courseware/courseware.html</a>
CEMC at Home	<a href="https://cemc.uwaterloo.ca/resources/cemc-at-home.php">https://cemc.uwaterloo.ca/resources/cemc-at-home.php</a> Problem of the Week: <a href="https://cemc.uwaterloo.ca/resources/potw.php">https://cemc.uwaterloo.ca/resources/potw.php</a>  Problem of the Month: <a href="https://www.cemc.uwaterloo.ca/resources/potm.php">https://www.cemc.uwaterloo.ca/resources/potm.php</a>

Play with your Math Exploding Dots Sites with Puzzles and Activities	<a href="https://playwithyourmath.com/">https://playwithyourmath.com/</a> <a href="https://gdaymath.com/wp-content/uploads/2013/11/EXPLODING-DOTS-for-March-2020.pdf">https://gdaymath.com/wp-content/uploads/2013/11/EXPLODING-DOTS-for-March-2020.pdf</a>
What is going on with this graph?	<a href="https://www.nytimes.com/column/whats-going-on-in-this-graph">https://www.nytimes.com/column/whats-going-on-in-this-graph</a> <a href="http://www.graphingstories.com/">http://www.graphingstories.com/</a> <a href="https://slowrevealgraphs.com/">https://slowrevealgraphs.com/</a>
Would you Rather challenges	<a href="https://www.wouldyourathermath.com/">https://www.wouldyourathermath.com/</a>
Youcubed – Jo Boaler	<a href="https://www.youcubed.org/exploring-calculus/">https://www.youcubed.org/exploring-calculus/</a> <a href="https://www.youcubed.org/resource/youcubed-at-home/">https://www.youcubed.org/resource/youcubed-at-home/</a>
Visual Patterns	<a href="http://www.visualpatterns.org/">http://www.visualpatterns.org/</a> The question is the same for each visual-what is the pattern and can you write an equation to model this pattern, these equations get very complex suitable for high school math classes
Between two numbers	<a href="http://www.between2numbers.com/">http://www.between2numbers.com/</a>
Fawn Nguyen	<a href="http://www.mathtalks.net/">http://www.mathtalks.net/</a>
Algebra II videos	<a href="https://drive.google.com/file/d/1Jv1qX-Klat9WYv826rSqOw8it8FbPOK2/view">https://drive.google.com/file/d/1Jv1qX-Klat9WYv826rSqOw8it8FbPOK2/view</a> <a href="https://www.nasa.gov/pdf/714670main_Algebra2.pdf">https://www.nasa.gov/pdf/714670main_Algebra2.pdf</a>
Geogebra	<a href="https://www.geogebra.org/">https://www.geogebra.org/</a> <a href="https://www.geogebra.org/m/s62rg7pn">https://www.geogebra.org/m/s62rg7pn</a> slope fields
Robert Kaplinsky	<a href="https://robertkaplinsky.com/lessons/">https://robertkaplinsky.com/lessons/</a> <a href="https://www.openmiddle.com/">https://www.openmiddle.com/</a>

### **Other Opportunities:**

ADST - coding <https://dystopia2153.com/> free until June 30th

Coding: Scratch: <http://scratch.mit.edu>

Computational Thinking: <https://www.polyup.com/>

Engineering Activities for Kids: <https://bit.ly/3dl4FXe>

### **Promoting Enrichment and Wonder**

We believe this is the time to focus on the bigger picture of developing creative mathematical thinkers. Take this opportunity to let students wonder and think. Can you pose questions for student to just ponder? Are there entertaining puzzles...that will engage students' minds for extended periods of time?

<https://cpm.org/remote-learning>