

SD38 Recommended Online Learning Experiences

The following are a selection of online learning experiences that require access to a computer or device and wifi. These are all optional learning experiences that can be provided as a choice to families. Where indicated for some platforms, a teacher sets up the accounts for students with password protected access (using alias names). Note, many online learning platforms may not be fully FOIPPA compliant or align completely with our BC mathematics curriculum. At this time, parents/guardians may choose to set up accounts for their children at home as optional learning experiences. There are many other math websites available to families. If they are not on this list it is likely because there are concerns about privacy protection or lack of alignment with our BC mathematics curriculum. Many of these platforms have been providing free access during the global pandemic.

Mathematics and Numeracy

Knowledge Hook

An online Canadian resource for students in grades 3-9.

Teachers are able to sign up for a free premium account at this time and then send access codes to students for “missions” for them to complete.

<https://www.knowledgehook.com/remote/>

MathUp

Developed by Dr. Marian Small, MathUp is a Canadian math web-based resource that supports both professional and student learning. It is available for Grades 1-6 in English and French. Teachers can access a free trial here:

<https://www.mathup.ca/www/free-trials/>

Mathology

Mathology story books are available in English in French for K-3 students. The following link provides free access to families to the digital books and accompanying math tasks under the Parent Info tab.

<https://www.pearsoncanadaschool.com/index.cfm?locator=PS3e1i>

Zorbis

Zorbis is a math adventure game for K-3 students available in English and French. Teachers set up a class account and provide students with access links. Teachers receive performance data for their students. A free summer learning trial is available here:

https://go.zorbismath.com/summer-learning?_ga=2.128350799.2134098515.1593154092-131342733.1570213817

Math Storytime

Created in Ontario, this is a collection of digital story books for students in grades K-2. Available in English and French. Available as an iOS or Android app.

<http://www.mathstorytime.ca/en>

Bedtime Math

This is an online resource created specifically for parents. They can choose from a menu of math tasks to do at home with their children.

<http://bedtimemath.org/fun-math-at-home/>

dreambox learning

Grades K-2, 3-5 and 6-8 learning environments for developing conceptual understanding and math and developing computational fluency. It adapts and responds to where students are in both content and pacing.

<https://www.dreambox.com/canada>

<https://www.dreambox.com/home-learning-with-dreambox>

Talk With Our Kids About Money (TWO KAM)

Resources created by the Canadian Foundation for Economic Education.

For at home learning:

https://talkwithourkidsaboutmoney.com/resource_type/home-resources/

Virtual Manipulatives

Families likely do not have physical math manipulatives at home. The following two sites provide online/virtual manipulatives that students can use to explore mathematics with as well as record and communicate their thinking with.

Math Learning Center

The Math Learning Center provides a suite of free apps. Virtual manipulatives based apps include: Fractions, Geoboard, Number Line, Number Frames (ten frames, 10x10 grids etc), Number Pieces (base ten blocks), Number Rack (rekenrek), and Pattern Shapes (pattern blocks). Apps are available in web-based or iOS formats.

<https://www.mathlearningcenter.org/resources/apps>

Didax

Didax is a company specializing in educational resources and materials. They have recently launched a set of virtual manipulatives. Because it is a company and has a shop embedded in its website, I would recommend sharing a direct link to each manipulative with students. For example, the following link takes you directly to the two-color counters: <http://www.didax.com/apps/two-color-counters/> Their set of free web-based virtual manipulatives includes: Unifix cubes, ten frames, 120 number board, place value discs and algebra tiles.

<https://www.didax.com/math/virtual-manipulatives.html>

Apps

The following apps have been vetted at the district level and are available through Self-Service for teachers, and can be recommended to families.

TouchCounts
TouchTimes
(developed at SFU, multi-lingual)

Math Tappers apps:

FindSums
ClockMaster
Multiples
Equivalents

EstimateFractions
FindAngle
MultiMatch
Numberline
(developed at UVic)

5 Dice: Order of Operations Game
10 Frame Fill

Count Sort
Line 'Em Up

TanZen

Todo Maths: play and learn from counting to multiplication

Geogebra
Desmos Graphing Calculator

Virtual Field Trips and Resources to Inspire Thinking about Numeracy

Virtual Museum of Canada

Online tours of exhibits from museums and historical sites across Canada.

<http://www.virtualmuseum.ca/virtual-exhibits/type/virtual-exhibits/>

Museum of Anthropology at UBC

Virtual tours, online collections, videos, textile colouring cards

<https://moa.ubc.ca/2020/03/maofromhome-stay-connected-online/>

BC Royal Museum

Learning portal, online galleries

<https://royalbcmuseum.bc.ca/engage-us-home>

Vancouver Aquarium

Webcams, livestreamed events, learning resources and craft ideas

<https://www.vanaqua.org>

Links to 101 virtual field trips such as aquariums, parks, animal webcams and museums.

https://socialfieldtrips.com/101-virtual-field-trips-for-students?fbclid=IwAR2WnfRfMZl27gDk_-XAnb08ilyVHzQmeE1IXXdolzD20aUzvy3Pcf0Q5A

Prompts to support thinking about numeracy:

What do you notice?

What do wonder?

What math do you see?

How can you use math to make sense of or understand the world?

What problem or issue do you notice?

How might mathematics help you think about this?

What could you do to investigate this problem and come up with a proposal, plan or solution?