

Math and Science

Staff Development Opportunities 2nd Edition

Jan-Mar 2021

Elementary Science Fair/Celebration



Would you like your students to pursue their own inquiry in science? Would you like to build up a school wide celebration or at the (new) district wide virtual science celebration? Attend this start up meeting to get resources, support, to meet high school mentors and develop scientific inquiry in your class, this on-line session takes place at 4 pm on January 13. Sign up on the Staff Development Calendar now.

Impactful Differentiation Gr 4-9

This cross-curricular planning series will look at effective strategies for differentiation to include the various needs of our diverse classrooms. The series is comprised of 2 after school sessions (Jan 18 and Feb 4) and a third planning session for

participants (date to be determined later). This series will be valuable for teachers from Grades 4 - 9 in any subject area. We encourage teams of teachers from schools to work together to attend the session (ELL support, LSS support and classroom teachers in both English and French Immersion). Facilitators include Anne-Marie Bilton, Emily Ginter, Michelle Van Balkom, Nicole Macpherson and Donna Morgan. Sign up on the Staff Development Calendar now.



Assessing Science Curricular Competencies K-12

How can we switch our science teaching and assessment to focus on the competencies, using content as the vehicle? Join with other science educators to find effective ways to use rubrics to build science skills and to look at ways to develop portfolios in science. Suitable for K-12 teachers, there will be 2 ninety-minute after school on-line session one in February and one in March. Sign up on the Staff Development Calendar now.

Math Routines K-12

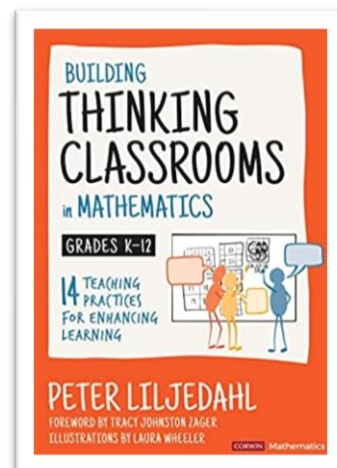
Would you like to start trying to implement some number sense routines into your math classes? Sign up for one (or all) of the Math Routines sessions. Feb 2—Number Talks; Mar 11 —Using Number Lines (K-12); April 14—Which One Doesn't Belong; May 6—Estimate!. These are one hour after school on-line sessions. Sign up on the Staff Development Calendar.

Tricky Topics in Elementary Science

Come unpack these tricky topics with clear background information, learning intentions for students, and activities/inquiries that stress the curricular competencies. Choose which session you need: January 16—Gr 7 EVOLUTION; February 22—Gr 4-7 Matter, Solutions, Mixtures and Compounds; March 8—Gr 4-7 Climate Change; April 19Gr 3-4 Heat and Energy Transformations. Sign up on the Staff Development Calendar.

Building Thinking Classrooms BOOK CLUB K-12

Make the most of Peter Liljedahl's presentation at our upcoming District Pro D Day (Feb 26) by joining our Building Thinking Classrooms Book Club. You sign up to three 75-minute after school book club sessions and you get a copy of this book PLUS a supportive community to try out the 14 math practices outlined by Liljedahl. Read more about Liljedahl's book [here](#). You can sign up on the Staff Development Calendar now, but don't hesitate, because this session will be limited to 20 participants.



Some Resources for Science and Math

Mystery Science-- sign on for the free trial [here](#) Mystery science is a website with videos and follow up lessons/activities on a range of topics for K-5 science.

Mathology at the DLRC--The Pearson Mathology little book series, which include small targeting math topics in K-3, is available at the DLRC. We have taken the whole set (in French and English) and broken them down into topic kits. The kits include sets of little books, teacher guides, activities and links to on-line materials as well. Search Mathology or Mathologie (for French titles) in the DLRC catalog to find the listings.



On-Line Trial for Mathology (particularly Gr 4-6 teachers) includes many on-line resources as well. If you are interested in being part of a 60 day on-line trial of Mathology.ca or Mathologie.ca, please send an e-mail to Donna.Morgan@burnabyschools.ca (If you have already e-mailed, no need to do that again).

Science Curriculum--Links to the K-7 science curriculum 4-pager background papers and also DLRC resource listings related to science can be found [here](#).

Choice Board--Grade 9 Questions, Activities and Investigations

By Skill	Exponents and Radicals	Computational Fluency with rational numbers	Continuous Linear relationships	Proportional Reasoning with 2-D shapes	Analyzing data and Financial Literacy
Reasoning and analyzing <ul style="list-style-type: none">• Compare• Identify messages• Technology• Hand-drawn in context	The real world often involves... ...of... ...of... ...of...	How do you... ...of... ...of... ...of...	Can you... ...of... ...of... ...of...	The... ...of... ...of... ...of...	How do you... ...of... ...of... ...of...
Understanding and solving <ul style="list-style-type: none">• Maps and tables• Multiple strategies• Connections to other areas• Independence of content	How do you... ...of... ...of... ...of...	How do you... ...of... ...of... ...of...	How do you... ...of... ...of... ...of...	How do you... ...of... ...of... ...of...	How do you... ...of... ...of... ...of...

Choice Boards for Math Gr 2-9

[Choice boards](#) spanning the Gr 2-9 Big Ideas and Curricular Competencies can be found on my math blog.

Blogs check out our district [Math](#) and [Science](#) blogs for more information, links and useful resources. You can also connect with B-Outside, our Burnaby environmental educators at our [place based learning blog](#).

Fortis will deliver its programs to your classroom virtually right now. Check out more details at <https://energyleaders.ca/>

Science Games--BC Geoscientists and Engineers are sponsoring the [Science Games](#) virtually this year. Students from Grades 1-6 can participate.

Twitter--this can be a great place to connect with a learning community. Follow me @DonnaMorgan8

Consultation/Support--need any help or advice on Math or Science topics? Give me a call at 604-760-6157 or drop an e-mail to Donna.Morgan@burnabyschools.ca