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| **Title:** | **Teaching Gr. 8, 9, and 10 Math Unit in a First Nations Context (MORNING)** |
| Target Audience: | Grade 8-10 Math Teachers |
| Presenter Biography: | **Susan Smith** has been a math, science and Special Education teacher in both secondary and middle schools for 23 years. Susan has also written math textbooks for Nelson Publishers, and the Grade 9 Math Study Centre on the Learn Now B.C website. |
| Workshop Summary:  | The new math curriculum requires that teachers introduce students to math topics in a First Nations context. The ready-to-go unit will allow students to explore: learning fractions through a venison stew recipe, finding combinations through a First Nations stick game, linear factors affecting moose populations, linear equations/Hooke’s Law in bow hunting, and line and rotational symmetry in First Nation art. An excellent resource to read before the workshop, if interested, is: <http://www.fnesc.ca/wp/wp-content/uploads/2015/08/PUB-LFP-Math-First-Peoples-8-9-for-Web.pdf>.   |

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| **Title:** | **Integrating STEAM Education through MakerSpace: New approach to the new curriculum (AFTERNOON)** |
| Target Audience: | Elementary and Middle School Teachers |
| Presenter Biography: | **Sunny Jun** I currently teach STEAM education at George Jay Elementary school I had the privilege to experience education systems in Korea, Canada, UK and Nepal.  I have taught at elementary school, middle school and high school level. My diverse experience has given me a global awareness in education and has well prepared me to adapt and to transfer skills in different and difficult settings.  I am willing to seek out new challenges and pursue knowledge to help me grow as a leader and educator. I believe that communication, collaboration, critical and creative thinking are key elements for successful learners.  These skills are critical in the Twenty First Century Learning model.  If we want our schools to succeed, we need to foster an environment that allows for collaboration and critical thinking that asks the ‘why’ and the ‘hows’ of what we are doing. I try to centre my teaching and mentoring around these important skills to help students and teachers grow and adapt to our ever changing world. |
| Workshop Summary:  | In this workshop, we will explore the following questions through hands on exploration and discussions:What is STEAM education and why is it important for our students? How does the new curriculum fit into STEAM education? How can regular classroom teachers apply STEAM education? |

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| **Title:** | **Hands-on Multiplication and Division with Meaning (AFTERNOON)** |
| Target Audience: | Grade 3-5 |
| Presenter Biography: | **Nikki Lineham** is a teacher in the Victoria School District and is the co-founder of Educating Now. She has a passion for math education and has been a leader in teaching practice by using hands-on manipulatives, focusing on conceptual understanding, using specific language to develop meaning and learning through problem solving. Since 2007 she has been working regularly with large and small groups of teachers conducting professional development sessions and mentoring throughout BC. She has also presented at conferences such as the Northwest Mathematics Conferences and the BCAMT Fall Conferences. |
| Workshop Summary:  | In this hands-on workshop we will use manipulatives and pictorial representations to really understand multiplication and division conceptually. We explore multiple ways of engaging students in thinking about and applying these important concepts. We will also explore non-traditional procedures, assessments, specific math language that helps students to develop meaning and understanding as well as the growth mindset in mathematics.  |

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| **Title:** | **Differentiating Mathematics Instruction – Meet More of Your Learners’ Needs (MORNING)** |
| Target Audience: | Grade 3-7 |
| Presenter Biography: | **Nikki Lineham** is a teacher in the Victoria School District and is the co-founder of Educating Now. She has a passion for math education and has been a leader in teaching practice by using hands-on manipulatives, focusing on conceptual understanding, using specific language to develop meaning and learning through problem solving. Since 2007 she has been working regularly with large and small groups of teachers conducting professional development sessions and mentoring throughout BC. She has also presented at conferences such as the Northwest Mathematics Conferences and the BCAMT Fall Conferences. |
| Workshop Summary:  | In this hands-on workshop we will explore how to use differentiated tasks in order to meet more of varying levels of skill sets of our students. We will also be discussing how helping our students develop a growth mindset enables them to succeed in mathematics. We will be using manipulatives and tasks that really engage students and help them to develop conceptual understanding. Examples from grades 3-7 will be used but all grades are welcome as the tasks are easy to adapt to other grade levels. |

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| **Title:** | **Activities, ideas and perspectives in Marine Science and Indigenous place-based learning (MORNING)** |
| Target Audience: | Grade 6-10 |
| Presenter Biography: | **Monika Pelz** in an Education and Engagement Coordinator with Ocean Networks Canada and Teacher on Call with Saanich District. Monika has a passion for marine science and exploring the ocean in creative, hands-on ways both inside and outside the classroom. **Mercedes Mclean** is the Indigenous Community Learning Coordinator with Ocean Networks Canada. Mercedes brings a diverse and personal perspective to Indigenous learning and is excited to present ideas and lessons that include place-based knowledge.  |
| Workshop Summary:  | Ocean Networks Canada (ONC) is excited to present activities and lessons that inspire marine science explorations aligned with the newly developed science curriculum. The session will demonstrate hands-on activities from a number of ONC resources including Ocean Sense, Shouting Whales and other marine science programming. This session will also highlight newly developed lessons, activities, and ideas that reflect and explore Indigenous perspectives in science and place-based learning.  |