

Secondary STEM Professional Development Day

Schedule

Theme: Modernizing Math & Science: Accountability, Assessment, and Inclusion

08:30 AM – 09:00 AM | Arrival & Morning Tea

- **Location:** School Library
- **Details:** Staff arrive, sign in for accountability, and pick up instructional handouts. Coffee, high-quality herbal and black specialty teas, and fresh breakfast pastries are provided.
- **Purpose:** Informal networking and establishing a supportive, collegial atmosphere for the day ahead.

09:00 AM – 10:30 AM | Session 1: School-Wide Keynote & Strategic Visioning

- **Location:** School Theater
- **Guest Speaker:** Marc Garneau (BCAMT Executive Member and K-12 BC Math Curriculum Committee Contributor)
- **Speaker Bio:** Marc Garneau is a Numeracy Helping Teacher for the Surrey School District, in which capacity he supports the teaching, learning, and assessment of mathematics across grades K-12.
- **Presentation Title:** Demystifying Provincial Benchmarks: Navigating the Core Competencies of the GNA 10
- **Speech Outline:** This opening address unloads the systemic data from the BC Ministry of Education regarding the Graduation Numeracy Assessment. Garneau will dissect how schools can bridge the gap between rote mathematical execution and the complex, contextual problem-solving demands tested on a provincial scale, framing assessment as a tool for student-centred accountability.

10:30 AM – 10:45 AM | Morning Coffee Break

- **Details:** A quick 15-minute transition break. Staff can refill mugs, stretch, and move toward their designated department breakout classrooms.

10:45 AM – 12:15 PM | Session 2: Department Breakouts & Pedagogical Frameworks

- **Location:** Mathematics & Science Wing (Classrooms)
- **Guest Speaker:** Dr. Peter Liljedahl (Professor of Mathematics Education at Simon Fraser University)
- **Speaker Bio:** He is a former high school math teacher, a long-standing BCAMT executive member, and the developer of the internationally recognized "Building Thinking Classrooms" framework.
- **Presentation Title:** Vertical Surfaces and Random Groups: Activating Thinking Classrooms
- **Speech Outline:** Moving away from passive math lectures, this active, hands-on workshop transforms the secondary space. Dr. Liljedahl will walk math and science teachers through implementing vertical non-permanent surfaces (VNPS) and visible random grouping strategies to construct an inclusive environment where mistakes are collective learning opportunities and student engagement is maximized.

12:15 PM – 01:15 PM | Catered Lunch

- **Location:** Staff Room
- **Details:** A structured lunch funded through standard school professional development funds.
- **Purpose:** Mental decompression, peer bonding, and informal dialogue regarding morning pedagogical insights.

01:15 PM – 02:30 PM | Session 3: Admin Integration & FNE SC Curriculum Mapping

- **Location:** Department Prep Rooms / Computer Labs
- **Guest Facilitator:** Kevin Dent (BCAMT President and SD23 Instructional Leadership Team Representative)
- **Speaker Bio:** He is a dedicated mathematics advocate who inspires numeracy confidence across BC by exploring student inquiry and community-based assessment strategies.
- **Presentation Title:** Accountability in Practice: Merging FNE SC Frameworks and MyEd BC Reporting
- **Speech Outline:** This collaborative computer-lab session focuses on practical

administrative and curricular alignment. Dent will guide teachers through utilizing official First Nations Education Steering Committee (FNESC) resources to weave Indigenous worldviews authentically into secondary data analysis and physics curriculum, followed by an operational workshop on optimizing MyEducation BC portals to track individual student IEP progress and report metrics accurately.

02:30 PM – 03:30 PM | Session 4: Self-Directed Professional Synthesis & Wrap-Up

- **Location:** Individual Classrooms
- **Details:** In accordance with standard BC collective bargaining agreements for self-directed professional time, teachers use this hour to implement the day's frameworks directly into their upcoming lesson profiles.
- **Key Focus:** Refining individual course syllabi, assembling immediate lesson plans for the upcoming term, and submitting a brief professional learning log to the school's Pro D committee chair.