

**Course:** Mathematics 9

**Course Format:** Online

**Description:** This course is designed to prepare students for their choice of Workplace mathematics, Foundations of Mathematics, or Pre-Calculus Mathematics in senior grades.

**Content Learning Standards:**

- Number: describes quantity including exponents and algebraic reasoning and expressions to analyze and describe mathematical relationships.
- Computational Fluency and Flexibility: extend to operations with rational numbers.
- Patterning: Continuous linear relationships can be represented in many ways and used to identify and make generalizations. This can include writing and evaluating polynomial expressions and solving algebra equations.
- Geometry and Measurement: Proportional reasoning, scale diagrams; solving problems involving surface area and volume of 3D objects.
- Data and Probability: central tendency; experimental probability; statistics
- Focus on problem solving
- Financial literacy: simple budgets and transactions. Regardless of the course selections made by students, there is a common experience in Mathematics that includes financial literacy
- First Peoples perspectives are reflected throughout the learning standards

**Curricular Competency Development Learning Standards:**

- Reasoning and modelling
- Understanding and solving
- Communicating and representing
- Connecting and reflecting

**Recommended Prerequisites:** Mathematics 8

**Resources:** Online course materials are provided. Personal computer and internet connection are required (not supplied by SAIL). Please note: online course platform is not fully compatible with tablets or smartphones.

