

## FOUNDATIONS OF MATHEMATICS/PRE-CALCULUS 10

**Credits: 4**

**Curricular Competencies:**

Reasoning and Modelling

Understanding and Solving

Communicating and Representing

Connecting and Reflecting

**Content:**

- operations on **powers** with integral exponents
- **prime factorization**
- **functions and relations:** connecting data, graphs, and situations
- **linear functions:** slope and equations of lines
- **arithmetic sequences**
- **systems** of linear equations
- **multiplication** of polynomial expressions
- polynomial **factoring**
- primary **trigonometric** ratios
- **financial literacy:** gross and net pay

**Materials Required:** Graphing paper, scientific calculator

**Prerequisites:** Math 9 (MA 9 - recommend 60% or higher)