Surrey Academy of INNOVATIVE LEARNING
learning without limits

Course: Mathematics 12 Foundations
Course Format: Online
Credits: 4

Description: The goal of this course is to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies that do not require the study of theoretical Calculus.

Content Learning Standards:

- Number: combinatorics; regressions; regression analysis
- Computational Fluency: graphical representations of polynomial, logarithmic, exponential, and sinusoidal functions
- Patterning
- Geometry and Measurement: transformations with iterations to create fractals
- Data and Probability: odds, probability, and expected value; mathematics as a tool when conducting research; set theory and conditional statements
- Focus on problem solving
- First Peoples perspectives are reflected throughout the learning standards

Curricular Competency Development Leaning Standards:

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

Due to student development of conceptual knowledge and skill set within our Mathematics 12 Foundations course students should be better prepared for post-secondary programs that do not require Calculus.

Recommended Prerequisite: Mathematics 11 Foundations
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.