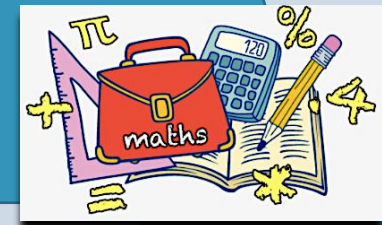


Data Management (MDM4U1)



This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analysing large amounts of information, as well as solve problems involving probability and statistics. In this course, measurement is more abstract and is based off of context, data collection and analysis. This course relies heavily on inductive reasoning to form uncertain conclusions. Students planning to enter programs in business, the social sciences, and the humanities will find this course of particular interest.

Counting and Probability

- Solve problems involving the probability of an event or a combination of events for discrete sample spaces
- Solve problems involving the application of permutations and combinations to determine the probability of an event

Probability Distributions

- Demonstrate an understanding of discrete and continuous probability distributions
- Represent discrete distributions numerically, graphically, and algebraically
- Make connections between discrete and continuous distributions

Organization of Data for Analysis

- Demonstrate an understanding of the role of data in statistical studies
- Describe the characteristics of a good sample, some sampling techniques, and principles of primary data collection
- Collect and organize data to solve problems

Statistical Analysis

- Analyse, interpret, and draw conclusions from one and two-variable data using numerical and graphical summaries
- Demonstrate an understanding of the applications of data management used by the media and the advertising industry