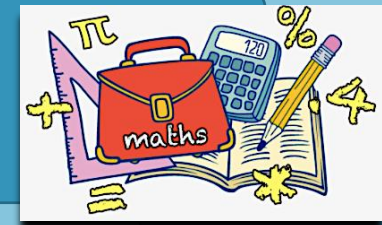


Functions(MCR3U)



This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. The concepts taught in this course will prepare students for Advanced Functions.

Characteristics of Functions

- Make connections between the algebraic and graphical representations of functions
- Solve problems involving quadratic functions
- Demonstrate an understanding of polynomial, rational, and radical expressions

Exponential Functions

- Evaluate and simplify exponential expressions with rational exponents
- Make connections between numerical, graphical, and algebraic representations of exponential functions
- Solve problems involving exponential functions

Discrete Functions

- Compare simple and compound interest, relate compound interest to exponential growth
- Compare services available from financial institutions
- Interpret information about owning and operating a vehicle

Trigonometric Functions

- Understand common statistical terms
- Collect, analyse, and summarize one-variable data
- Determine and represent probability, and identify and interpret its applications