

# Valemount Secondary - Work Place Math 10

## UNIT ONE

### EXPERIMENTAL PROBABILITY

- Conducting a Probability Experiment Using Games
- Solving a Problem by Conducting a Simulation
- Theoretical Probability (include tree diagrams)
- Theoretical vs Experimental Probability

## UNIT TWO

### GRAPHS

- Line Graphs
- Bar Graphs and Histograms
- Circle or Pie Graphs
- Pictographs, and Infographics

## UNIT THREE

### MEASUREMENT CONVERSIONS

- Comparing Systems of Measurement
- Converting Between Measurement Systems
- Calculating Mass and Weight using Imperial System
- Calculating Mass and Weight using System International
- Converting Between Measurement Systems

## UNIT FOUR

### TRIGONOMETRY

- The Pythagorean Theorem
- The Primary Trigonometric Ratios
- The Sine Ratio
- The Cosine Ratio
- The Tangent Ratio

## UNIT FIVE

### SURFACE AREA and VOLUME

- Calculating Surface Area of 2D Shapes
- Surface Area of Prisms and Cylinders
- Surface Area of Pyramids, Cones, and Spheres
- Surface Area of Composite Figures

- Volume of Right Prisms and Right Pyramids
- Volume of Right Cones and Spheres
- Calculating Volume

## **UNIT SIX**

### **CENTRAL TENDENCY**

- Statistics, Data and Mean
- Median, Mode, Range & Outliers
- Selecting the Appropriate Measures of Central Tendency

## **UNIT SEVEN**

### **FINANCIAL LITERACY**

- Salary, Hourly, and Overtime Wages
- Alternative Methods of Compensation
- Pay Statements and Calculating Gross and Net Pay

### **Evaluation:**

- **Quizzes – 10%**
- **Tests – 30%**
- **Exam – 15%**
- **Projects and Assignments – 35%**