

Apprenticeship and Workplace Mathematics 11

Textbook: MathWorks 11 (Pacific Press)

Chapter 1: Slope and Rate of Change

- a) Demonstrate an understanding of slope:
 - as rise over run
 - as rate of change
 - by solving problems

Chapter 2: Graphical Representations

- a) Solve problems that involve creating and interpreting graphs, including: bar graphs, histograms, line graphs and circle graphs.

Chapter 3: Surface Area, Volume, and Capacity

- a) Solve problems that involve SI and imperial units in surface area measurements and verify the solutions.
- b) Solve problems that involve SI and imperial units in volume and capacity measurements.

Chapter 4: Trigonometry of Right Triangles

- a) Solve problems that involve two and three right triangles.

Chapter 5: Scale Representations

- a) Solve problems that involve scale.
- b) Model and draw 3-D objects and their views.
- c) Draw and describe exploded views, component parts and scale diagrams of simple 3-D objects.

Chapter 6: Financial Services

- a) Demonstrate an understanding of compound interest.
- b) Demonstrate an understanding of financial institution services used to access and manage finances.
- c) Demonstrate an understanding of credit options, including: credit cards and loans.

Chapter 7: Personal Budgets

- a) Solve problems that involve personal budgets.

Throughout the year students will be:

- a) Using Algebra to solve problems that require the manipulation and application of formulas.
- b) Applying proportional reasoning and unit analysis to solve problems.
- c) Using problem-solving strategies to analyze puzzles and games that involve numerical reasoning.