

Textbook 6B scheme

- **Chapter 7 – Percentage**

- Lesson 1 – Finding the Percentage of a Number

To find the percentage of a whole number using division and multiplication; to use bar modelling as a pictorial approach to calculating percentage.

- Lesson 2 – Finding the Percentage of a Quantity

To find the percentage of a quantity; to use bar model diagrams to support the division and multiplication of numbers towards the percentage.

- Lesson 3 – Finding Percentage Change

To find the percentage change in an amount over time; to calculate the percentage change where the number gives rise to a decimal.

- Lesson 4 – Using Percentage to Compare

To use percentage, bar models and fractions to compare amounts.

- Mind Workout – Mind Workout

- **Chapter 8 – Ratio**

- Lesson 1 – Comparing Quantities
- Lesson 2 – Comparing Quantities
- Lesson 3 – Comparing Quantities
- Lesson 5 – Comparing Quantities
- Lesson 5 – Comparing Quantities
- Lesson 6 – Comparing Numbers
- Lesson 7 – Solving Word Problems
- Lesson 8 – Solving Word Problems
- Lesson 9 – Solving Word Problems
- Mind Workout – Mind Workout

- **Chapter 9 – Algebra**

- Lesson 1 – Describing a Pattern

To determine a pattern using concrete materials and pictorial representation; to use a table to identify a repeating pattern; to express a rule using a letter or a symbol.

- Lesson 2 – Describing a Pattern

To determine a pattern using concrete materials and pictorial representation; to use a table to identify a repeating pattern; to express the relationship between consecutive numbers in terms of a symbol or a letter.

- Lesson 3 – Describing a Pattern

To determine a pattern using concrete materials and pictorial representation; to use a table to identify a pattern; to express the relationship between consecutive numbers in terms of a symbol or letter.

- Lesson 4 – Describing a Pattern

To determine a pattern using concrete materials and pictorial representation; to use a table to identify a pattern; to express unknown numbers in terms of a letter or a symbol, including using a number before a letter for multiplication.

- Lesson 5 – Writing Algebraic Expressions

To use a table to identify a pattern; to write algebraic expressions using each of the four operations.

- Lesson 6 – Writing and Evaluating Algebraic Expressions

To use examples to identify rules; to write algebraic expressions using each of the four operations; to evaluate algebraic expressions including the use of inverse operations.

- Lesson 7 – Writing and Evaluating Algebraic Expressions

To recognise patterns; to write algebraic expressions with two steps; to evaluate algebraic expressions with two steps.

- Lesson 8 – Writing Formulae

To recognise patterns; to write and evaluate algebraic expressions with two steps; to write and use formulae.

- Lesson 9 – Using Formulae

To use formulae to solve problems; to replace a letter/variable with a number then solve the equation; to use inverse operations to solve equations.

- Lesson 10 – Solving Equations

To solve equations; to use equations to find unknown values.

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- **Chapter 10 – Area and Perimeter**

- Lesson 1 – Finding the Area and the Perimeter of Rectangles

To find the area and perimeter of rectangles; to calculate perimeter using the known area and vice versa.

- Lesson 2 – Finding the Area of Parallelograms

To find and calculate the area of a parallelogram; to use concrete materials and prior understanding of area to construct a formula for the area.

- Lesson 3 – Finding the Area of Triangles

To use prior knowledge of area to determine and solve the area of a triangle; to use and apply the formula for the area of a rectangle to solve problems involving triangles.

- Lesson 4 – Finding the Area of Triangles

To calculate the area of a triangle using a formula; to calculate the area of a triangle in multiple ways.

- Lesson 5 – Finding the Area of Triangles

To use multiple methods to solve the area of a triangle.

- Lesson 6 – Finding the Area of Parallelograms

To find the area of a parallelogram using an understanding of triangles; to use concrete materials to solve for the area of a parallelogram.

- Mind Workout – Mind Workout

• **Chapter 11 – Volume**

- Lesson 1 – Finding the Volume of Cubes and Cuboids

To find the volume of cubes and cuboids using concrete materials.

- Lesson 2 – Finding the Volume of Cubes and Cuboids

To determine the formula for the volume of cubes and cuboids and apply it to calculate the volume of shapes.

- Lesson 3 – Finding the Volume of Cubes and Cuboids

To estimate the volume of objects and spaces; to calculate the volume of boxes using the formula for volume of cubes and cuboids.

- Lesson 4 – Finding the Volume of Cubes and Cuboids

To calculate the volume of boxes using the formula for volume of a cube; to expose common misconceptions in volume through a 3-box arrangement.

- Lesson 5 – Solving Problems Involving the Volume of Solids

To solve word problems involving the volume of cubes and cuboids; to apply the formula for the volume of a cube or cuboid.

- Mind Workout – Mind Workout

• **Chapter 12 – Geometry**

- Lesson 1 – Investigating Vertically Opposite Angles
- Lesson 2 – Solving Problems Involving Angles
- Lesson 3 – Investigating Angles in Triangles
- Lesson 4 – Investigating Angles in Quadrilaterals
- Lesson 5 – Solving Problems Involving Angles in Triangles and Quadrilaterals
- Lesson 6 – Naming Parts of a Circle
- Lesson 7 – Solving Problems Involving Angles in a Circle
- Lesson 8 – Drawing Quadrilaterals
- Lesson 9 – Drawing Triangles
- Lesson 10 – Drawing Triangles
- Lesson 11 – Drawing Nets of Three-Dimensional Shapes
- Lesson 12 – Drawing Nets of Three-Dimensional Shapes
- Mind Workout – Mind Workout

• **Chapter 13 – Position and Movement**

- Lesson 1 – Showing Negative Numbers
- Lesson 2 – Describing Position
- Lesson 3 – Describing Position
- Lesson 4 – Drawing Polygons on a Coordinate Grid
- Lesson 5 – Describing Translations
- Lesson 6 – Describing Reflections
- Lesson 7 – Describing Movements

- Lesson 8 – Describing Movements
- Lesson 9 – Using Algebra to Describe Position
- Lesson 10 – Using Algebra to Describe Movements
- Mind Workout – Mind Workout
- **Chapter 14 – Graphs and Averages**
 - Lesson 1 – Understanding Averages
 - Lesson 2 – Calculating the Mean
 - Lesson 3 – Calculating the Mean
 - Lesson 4 – Solving Problems Involving the Mean
 - Lesson 5 – Showing Information on Graphs
 - Lesson 6 – Reading Pie Charts
 - Lesson 7 – Reading Pie Charts
 - Lesson 8 – Reading Pie Charts
 - Lesson 9 – Reading Line Graphs
 - Lesson 10 – Reading Line Graphs
 - Lesson 11 – Converting Miles into Kilometres
 - Lesson 12 – Reading Line Graphs
 - Mind Workout – Mind Workout
- **Chapter 15 – Negative Numbers**
 - Lesson 1 – Adding and Subtracting Negative Numbers
 - Lesson 2 – Using Negative Numbers
 - Mind Workout – Mind Workout

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