

Maths Year 8

TERM 1

7.14 Congruence and Scale Drawing	Standard Conventions for Labelling and Identifying Side Lengths
	Standard Conventions for Labelling and Identifying Angles
	Criteria for Similarity and Congruence
	Measuring Line Segments
	Measuring Angles
	Line Segments and Angles
	Interpret Scale Drawings
	The Rules for Congruent Triangles
	Constructing Congruent Triangles
	Identifying Whether Triangles are Congruent

8.1 Number	Adding and Subtracting Integers
	Multiplying and Dividing by 10, 100 and 1000
	Multiplying Integers
	Dividing Integers
	Adding, Subtracting, Multiplying and Dividing Decimals
	Single Digit Directed Numbers
	Working with Integers and Decimals

TERM 2

8.2 Linear Equations with Unknowns on Both Sides	Introduction to Solving Linear Equations with an Unknown on Both Sides of the Equals
	Solving Linear Equations with Integer Coefficients and Unknowns on Both Sides of the Equals Sign
	Linear Equations with Brackets

	Equations with Brackets Preceded by a Term
	Linear Equations with Unknowns on Both Sides and Fractional Coefficients
	Use Equations to Solve Problems Described in Words
8.3 Parallel, Alternate and Corresponding	Parallel Lines and Transversals
	Alternate & Corresponding Angles
	Alternate Interior & Exterior Angles
8.4 Sets and Unions	Enumerate a Venn Diagram using a Carroll Diagram
	Find the Number of Elements in the Combinations of Unions and Combinations of Sets
	Enumerate a Venn Diagram
8.5 Percentages	Fractions and Percentages as Operators
	The Equivalence of Decimals, Fractions and Percentages
	Percentages from Pictures
	Find one Quantity as a Percentage of Another Quantity
	Finding a Percentage of a Quantity without a Calculator
	Find a Percentage of a Quantity Using a Calculator
	Converting Numerical Change into a Percentage Change
	Dealing with Percentages Greater than 100%
	Using Percentages to Make Comparisons - Stocks and Shares Type Problems
	Using Percentages to Make Comparisons - Test Marks Type Problems

TERM 3

8.6 Sequences and Relationships	Recognising arithmetic sequences and generating them from the nth term
	Finding the nth term of an Arithmetic Sequence
	Finding and Using the nth Term of an Arithmetic Sequence
	Solving Problems involving the nth Term of an Arithmetic Sequence
	Interpreting Conversion Graphs

	Plotting Conversion Graphs
	Expressing a Mathematical Relationship as a Formula
	Solving Problems by Expressing a Mathematical Relationship as a Formula
8.7 Symmetries and Constructions	Describe a Range of Regular Polygons that are Reflectively and Rotationally Symmetric
	Sketch and Draw a Range of Regular Polygons that are Reflectively and Rotationally Symmetric
	Describing Regular and Irregular Polygons that are Reflectively and Rotationally Symmetric
	Describe, Sketch and Draw Regular and Irregular Polygons that are Reflectively and Rotationally Symmetric
	Constructing the Perpendicular Bisector of a Line Segment
	Constructing a Perpendicular to a Given Line from a Point
	Constructing a Perpendicular to a Given Line from a Given Point
	Constructing the Bisector of a Given Angle
	Demonstrating that the Shortest Distance is the Perpendicular

TERM 4

8.8 Using Averages, Range and Relationships to Describe Data	Median, Mode and Range
	Three Averages
	Find Measures of Centre and Spread from Frequency Tables
	Make Comparisons using Average and Range
	A Statistical Mini-Project
	Plot and Read Scatter Graphs
	Interpret Correlation in Scatter Graphs
	Draw Lines of Best Fit and Use them to make Predictions

TERM 5

8.9 Multiples, Factors and Primes	Factors and Multiples
	Lowest Common Multiple (LCM) and Highest Common Factor (HCF)
	Prime Numbers
	Prime Factor Decomposition
	Using Prime Factors to Find the LCM and HCF
	Solve Problems Involving LCM and HCF
8.10 Linear Equations: Graphically and Algebraically	Tables of Values from Linear Functions
	Straight Line Graphs from Linear Functions
	Graphs from Gradient and Intercept
	Complex Graphs Given in the Form $y=mx+c$
	Plotting $ax+by=c$
	Key Features of Straight Line Graphs
	Understanding Gradient
	Understanding $y=mx+c$
	Finding the Equation of Straight Line Graphs
	Gradients and Intercepts of Linear Functions by Rearranging

TERM 6

8.11 Accuracy with Perimeter, Area and Volume	Understanding and Using Inequality Notation
	Rounding & Estimating in Real Life Problems
	Rounding & Estimating in Numerical & Mathematical Problems
	Calculating the Circumference of Circles
	Calculating the Area of Circles
	Finding Perimeters of 2D Shapes
	Exploring Compound Shapes

	Perimeters of Compound Shapes
	Area of Compound Shapes
	Understanding Prisms
	Surface Area of Prisms
	Volume of Prisms
	The Volume of Cylinders
	The Surface Area of Cylinders