

Term 1

8A: Properties of number

Highest Common Factor and Lowest Common Multiple

Prime numbers

Prime factor decomposition

Highest common factor from prime factors

Lowest common multiple from prime factors

8B: Fraction arithmetic

Find equivalent fractions

Simplify fractions

Convert between improper fractions and mixed numbers

Multiply fractions and mixed numbers

Divide fractions and mixed numbers

Add/subtract fractions and mixed numbers

8C: Angles in parallel lines

Angle rules (around point, on a straight line, vertically opposite)

Find missing angles in triangles

Find missing angles in quadrilaterals

Corresponding and alternate angles

Angle rules in special quadrilaterals

Term 2

8D: Solving linear equations 2

Solve equations with an unknown on both sides

Solve equations with brackets

Form and solve equations from different contexts
Term 3
8E: Harder percentages
Convert between fractions, decimals and percentages
Percentage of an amount
Increase/decrease by a percentage
Percentages using multipliers
Find percentage change
Reverse percentage problems
8F: Ratio & proportional reasoning
Simplify ratio
Share in ratio
Solve ratio problems
Calculate speed/distance/time
Calculate rate of change from a graph
8G: Rounding & accuracy
Round to decimal places
Round to significant figures
Term 4
8H: Perimeter, area and volume (& 3D shapes)
Area of rectangles, parallelograms and triangles
Area of 2D compound shapes
Area of trapezia
Area and circumference of a circle

Plans and elevations
Surface area
Volume of prisms
8I: Probability
Probability scale
Probability of a single event
Understand that probability sums to 1
Experimental probability
Sample-space diagrams
Term 5
8J: Rearranging formulae
Change the subject of a formula
8K: Sequences
Find the next numbers in a sequence
Find the nth term of linear sequences
Generate sequences from an nth term
Special sequences (fibonacci, geometric)
8L: Graphs of linear equations
Plot linear graphs
Understand the gradient of linear graphs
Understand $y=mx + c$
Identify and construct parallel lines on a graph
Real life graphs
Term 5

