

Key Stage 3

Unit and focus	1 Number	2 Number	3 Ratio & proportion
Year 7	Place value, integers and decimals Rounding using d.p. and s.f. \times and \div by 10, 100, 1000 Multiplication/division of decimals Arithmetic with directed numbers Understand index notation Square and cube roots	4 Factors, multiples 3 Prime numbers 2 Prime factors 4 LCMs, HCFs 5 Equivalence of fractions 3 $+$, $-$, \times , \div of fractions 2 Estimation	2 Equivalence between fractions, decimals and percentages 2 Calculating percentages without a calculator 2 Calculating percentages using a multiplier 3 Sharing in a ratio (including reverse problems) 3 Fractions of quantities 5 Pie charts 4
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Unit and focus	1 Number, ratio & proportion	2 Algebra	3 Geometry & Measures
Year 8	Index laws (multiplication, division, power-to-a-power) Zero and negative indices Standard form for large/small numbers Fractions above 1 Fractional changes Percentage changes Multipliers for percentage changes	4 Solve linear equations with the unknown on each side 2 Change the subject of an equation 4 Multiply double brackets 2 Work out and use the n th term of linear sequence 2 Represent any linear relationship using a graph 3 Gradient and y -intercept of a straight line graph 4	4 Calculate the area and circumference of circle 4 Calculate the volume and surface area of a cuboid 4 Use Pythagoras' theorem in two dimensions 3 Reflection 3 Rotation 4 Translation using vectors Enlargement (positive integer scale factor) 3
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Key Stage

Unit and focus	4 Algebra	5 Geometry & Measures	6 Algebra			
Year 7	Order of operations Formulating expressions Substitution Simplifying expressions by collecting like terms Multiply out and factorise using single brackets	3 Area of rectangle and triangle 3 Area: parallelogram and trapezium 3 Perimeter 3 Angle facts (point, straight line, triangle, opposite) 3 Measuring angles Construct triangles: SSS, SAS, ASA Solve simple problems using compasses Reflection and rotation symmetry	4 Work with sequences using a term-to-term rule 4 Work with sequences using a position-to-term rule 3 Represent a simple linear relationship on a graph 4 Formulate and solve one-step equations 2 Formulate and solve two-step equations 2 Solve linear equations involving brackets 2 4	3 4 4 3 3 2		
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Unit and focus	4 Ratio & proportion	5 Geometry & Measures	6 Statistics & Probability			
Year 8	Direct proportion Graphs showing direct proportion Interpreting the gradient of a real-life graph Problems involving distance, speed, time Compound measures Relationship between lengths/angles in similar shapes	3 Angle properties of parallel and intersecting lines 3 Bearings 3 Angle and symmetry properties of quadrilaterals 4 Construct perpendicular and angle bisectors 4 Construct the perpendicular to a straight line 3 Isometric drawings and nets Plans and elevations Faces, edges, vertices of 3D shapes	4 Mean, median, mode, range 2 Simple data representation 4 Scatter diagrams 4 Probability as a simple fraction Listing equally likely outcomes 2 Sample space diagrams 2 Product rule for counting 2 Addition and multiplication laws for probability	4 2 3 3 5 3		
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