

Term	Topic(s)	Assessed work	Additional details
1 a 7 weeks 28_lessons	<p>Straight line graphs</p> <ul style="list-style-type: none"> <li>Using table of values</li> <li>Compare gradients and intercepts</li> <li>Understand and use <math>y=mx+c</math></li> <li>Find the equation of a line from a graph</li> <li>Interpret gradient and intercepts of real-life graphs</li> </ul> <p>Forming and solving equations</p> <ul style="list-style-type: none"> <li>Inequalities with negative numbers</li> <li>Solve equations with unknowns on both sides</li> <li>Solve inequalities with unknowns on both sides</li> <li>Solving equations and inequalities in context</li> <li>Substituting into formulae and equations</li> <li>Rearranging formulae (one-step) and (two step)</li> </ul> <p>Testing Conjectures</p> <ul style="list-style-type: none"> <li>Show that...</li> <li>Conjectures about number</li> <li>Expand a pair of binomials</li> <li>Conjectures with algebra</li> <li>Explore the 100 grid</li> </ul>	<p>White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework</p>	<p>Revisit:</p> <ul style="list-style-type: none"> <li>- Lines, parallel to the axes, <math>y=x</math> and <math>y=-x</math></li> <li>- Solve one and two-step equations and inequalities</li> <li>- Solve one and two-step equations and inequalities with brackets</li> <li>- Factors, multiples and primes</li> </ul>
1b 7 weeks 28_lessons	<p>Three-dimensional shapes</p> <ul style="list-style-type: none"> <li>Know names of 2-D and 3-D shapes</li> <li>Recognise prisms</li> <li>Accurate nets of cuboids and other 3-D shapes</li> <li>sketch and recognise nets of cuboids and 3-D shapes</li> <li>plans and elevations</li> <li>Surface area of cubes and cuboids</li> <li>surface area of triangular prisms</li> <li>surface area of a cylinder</li> <li>volume of cubes and cuboids</li> <li>Volume of other 3-D shapes - prisms and cylinders</li> </ul> <p>Constructions and Congruency</p> <ul style="list-style-type: none"> <li>Locus of distance from a point/ straight line/shape</li> <li>Locus of points equidistant from two points</li> <li>construct a perpendicular bisector</li> <li>Construct a perpendicular from/to a point</li> <li>Locus of distance from two lines</li> <li>Construct an angle bisector</li> <li>Identify/ explore congruent figures/triangles</li> </ul> <p>Numbers</p> <ul style="list-style-type: none"> <li>Integers, real and rational numbers</li> <li>Solve problems with integers and decimals</li> <li>Solving problems with fractions</li> </ul>	<p>White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework</p>	<p>Revisit:</p> <ul style="list-style-type: none"> <li>- Find area of 2-D shapes</li> <li>- Draw and measure angles</li> <li>- Construct and interpret scale drawings</li> <li>- Construct triangles from given information</li> <li>- Work with directed number</li> <li>- HCF and LCM</li> <li>- Adding and subtracting fractions</li> <li>- Multiplying and dividing fractions</li> <li>- Numbers in standard form</li> </ul>
2a 6 weeks 24_lessons	<p>Using percentages</p> <ul style="list-style-type: none"> <li>Solve 'reverse' percentage problems</li> <li>Recognise and solve percentage problems (non-calc)</li> </ul> <p>Maths and Money</p> <ul style="list-style-type: none"> <li>Solve problems with bills and bank statements</li> <li>Calculate simple interest</li> <li>Calculate compound interest</li> <li>Solve problems with VAT</li> <li>Calculate wages and taxes</li> <li>Solve problems with exchange rates</li> <li>Solve unit pricing problems</li> </ul> <p>Deduction</p> <ul style="list-style-type: none"> <li>Solving angles problems (using chains of reasoning)</li> <li>Angles problems with algebra</li> <li>Conjectures with angles</li> <li>Conjectures with shapes</li> </ul>	<p>White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework</p>	<p>Revisit:</p> <ul style="list-style-type: none"> <li>- Use the equivalence of fractions, decimals, and percentages</li> <li>- Calculate percentage increase and decrease</li> <li>- Express a change as a percentage</li> <li>- Recognise and solve percentage problems (calc)</li> <li>- Angles in parallel lines</li> </ul>
2b 6 weeks 24_lessons	<p>Rotation and Translation</p> <ul style="list-style-type: none"> <li>Identify the order of rotational symmetry of a shape</li> <li>Compare and contrast rotational symmetry with line symmetry</li> <li>Rotate a shape about a point on and not on a shape</li> <li>Translate points and shapes by a given vector</li> <li>Compare rotation and reflection of shapes</li> </ul> <p>Pythagoras</p> <ul style="list-style-type: none"> <li>Identify the hypotenuse of a right-angled triangle</li> <li>Determine whether a triangle is right angled</li> <li>Calculate the hypotenuse of a right-angled triangle</li> <li>Calculate missing sides in right-angled triangles</li> <li>Use Pythagoras' theorem on coordinate axes</li> <li>Explore proofs of Pythagoras' theorem</li> </ul>	<p>White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework</p>	<p>Revisit:</p> <ul style="list-style-type: none"> <li>- Squares and square roots</li> </ul>

<p>3a 6 weeks 24_lessons</p>	<p>Enlargement and Similarity</p> <ul style="list-style-type: none"> <li>• Recognise enlargement and similarity</li> <li>• Enlarge a shape by a positive integer scale factor</li> <li>• Enlarge a shape by a positive integer scale factor from a point</li> <li>• Enlarge a shape by a positive fractional scale factor</li> <li>• Work out missing sides and angles in a pair of given similar shapes</li> </ul> <p>Solving ratio and proportion problems</p> <ul style="list-style-type: none"> <li>• Solve problems with inverse proportion</li> <li>• Solve 'best-buy' problems</li> </ul> <p>Rates</p> <ul style="list-style-type: none"> <li>• Solve speed, distance and time problems with/ without a calculator</li> <li>• Use distance/time graphs</li> <li>• Solve problems with density, mass and volume</li> <li>• Solve flow problems and their graphs</li> <li>• Rates of change and their units</li> </ul>	<p>White Rose (Flashback and End of block assessment) Diagnostic Quizzes Classwork Homework</p>	<p>Revisit</p> <ul style="list-style-type: none"> <li>- Solve problems with direct proportion</li> <li>- Direct proportion and conversion graphs</li> <li>- Solve ratio problems given the whole or part</li> </ul>
<p>3b 7 weeks 28 lessons</p>	<p>Revision</p> <p>Probability</p> <ul style="list-style-type: none"> <li>• Relative frequency - include convergence</li> <li>• Expected outcomes</li> <li>• Independent events</li> <li>• Use tree diagrams to work out probabilities</li> </ul> <p>Algebraic representation</p> <ul style="list-style-type: none"> <li>• Draw and interpret quadratic graphs</li> <li>• Interpret graphs, including reciprocal and piece-wise</li> <li>• Represent inequalities</li> </ul>	<p>End of year exams Curriculum enrichment week</p>	<p>Revisit</p> <ul style="list-style-type: none"> <li>- Single event probability</li> </ul>