

# Year 7

Half term 1 September-October	Half term 2 October-December	Half term 3 January-February	Half term 4 February-April	Half term 5 April-May	Half term 6 June-July
<ul style="list-style-type: none"> <li>Place value</li> <li>Rounding</li> <li>Negative numbers</li> <li>BIDMAS</li> <li>Collecting like terms</li> <li>Substitution</li> </ul>	<ul style="list-style-type: none"> <li>Multiples (LCM)</li> <li>Factors (HCF)</li> <li>Prime numbers</li> <li>Addition</li> <li>Subtraction</li> <li>Multiplication</li> <li>Division</li> </ul>	<ul style="list-style-type: none"> <li><b>Mid-year assessments</b></li> <li>Area</li> <li>Expanding</li> <li>Factorising</li> <li>Multiplying decimals</li> <li>Dividing decimals</li> </ul>	<ul style="list-style-type: none"> <li>Simplifying fractions</li> <li>Fractions, decimals, percentages</li> <li>Fractions of amounts</li> <li>Multiplying fractions</li> <li>Dividing fractions</li> </ul>	<ul style="list-style-type: none"> <li>Adding fractions</li> <li>Subtracting fractions</li> <li>Drawing angles</li> <li>Measuring angles</li> <li>Angle rules</li> </ul>	<ul style="list-style-type: none"> <li>Triangles</li> <li>Quadrilaterals</li> <li>Symmetry</li> <li>Coordinates</li> <li><b>End-of-year assessments</b></li> <li>Mean</li> <li>Venn diagrams</li> <li>Probability</li> </ul>



# Year 8

Half term 1 September-October	Half term 2 October-December	Half term 3 January-February	Half term 4 February-April	Half term 5 April-May	Half term 6 June-July
<ul style="list-style-type: none"> <li>• Powers and roots</li> <li>• Indices</li> <li>• Prime factor decomposition (inc. HCF/LCM)</li> <li>• Four operations with fractions</li> <li>• Four operations with negatives</li> <li>• Substitution</li> <li>• Collecting like terms</li> </ul>	<ul style="list-style-type: none"> <li>• Expanding</li> <li>• Factorising</li> <li>• Solving equations</li> <li>• Rounding to significant figures</li> <li>• Estimating</li> <li>• Angles in parallel lines</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Mid-year assessments</b></li> <li>• Converting units of length, weight, time, area, volume</li> <li>• Speed</li> </ul>	<ul style="list-style-type: none"> <li>• Area and perimeter</li> <li>• Area and circumference of a circle</li> <li>• Percentages (calc and non-calc)</li> </ul>	<ul style="list-style-type: none"> <li>• Ratio (Types 1, 2 and 3)</li> <li>• Direct proportion</li> <li>• Bar charts</li> <li>• Frequency tables</li> <li>• Pictograms</li> <li>• Two-way tables</li> </ul>	<ul style="list-style-type: none"> <li>• Averages and range</li> <li>• <b>End-of-year assessments</b></li> <li>• 3d shapes and nets</li> <li>• Plans and elevation</li> <li>• Surface area of prisms</li> <li>• Volume of prisms</li> </ul>



# Year 9

Half term 1 September-October	Half term 2 October-December	Half term 3 January-February	Half term 4 February-April	Half term 5 April-May	Half term 6 June-July
<ul style="list-style-type: none"> <li>• Midpoint and gradient</li> <li>• Plotting straight line graphs and using <math>y=mx+c</math></li> <li>• Angles in polygons</li> <li>• Standard form</li> <li>• Linear sequences</li> </ul>	<ul style="list-style-type: none"> <li>• Expanding and factorising single brackets and double brackets</li> <li>• Rearranging</li> <li>• Ratio</li> <li>• Direct and inverse proportion</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Mid-year assessments</b></li> <li>• Scale diagrams</li> <li>• Solving linear inequalities</li> </ul>	<ul style="list-style-type: none"> <li>• Solving linear simultaneous equations</li> <li>• Index laws</li> <li>• Pythagoras' theorem</li> </ul>	<ul style="list-style-type: none"> <li>• Transformations</li> <li>• Probability</li> <li>• Averages</li> </ul>	<ul style="list-style-type: none"> <li>• Data: bar charts, pictograms, pie charts, stem-and-leaf diagrams</li> <li>• <b>End-of-year assessments</b></li> <li>• Constructions and loci</li> <li>• Arc length and area of a sector</li> <li>• Simplifying algebraic expressions using index laws</li> </ul>



# Year 10

Half term 1 September-October	Half term 2 October-December	Half term 3 January-February	Half term 4 February-April	Half term 5 April-May	Half term 6 June-July
<ul style="list-style-type: none"> <li>Expanding and factorising quadratics</li> <li>Completing the square (Higher)</li> <li>Substitution</li> <li>Rearranging equations</li> <li>Linear graphs</li> <li>Compound measures</li> </ul>	<ul style="list-style-type: none"> <li>Quadratic and cubic graphs</li> <li>Solving linear equations (Foundation)</li> <li>Algebraic fractions (Higher)</li> <li>Sequences</li> <li>Simultaneous equations</li> </ul>	<ul style="list-style-type: none"> <li><b>Mid-year assessment</b></li> <li>Probability</li> <li>Venn diagrams</li> <li>Sampling (Higher)</li> <li>Percentage of amount</li> <li>Percentage change</li> <li>Compound interest</li> </ul>	<ul style="list-style-type: none"> <li>Ratio</li> <li>Scale diagrams</li> <li>Direct proportion</li> <li>Inverse proportion</li> <li>Index laws (Foundation)</li> <li>Surds (Higher)</li> </ul>	<ul style="list-style-type: none"> <li>Bounds</li> <li>Recurring decimals (Higher)</li> <li>Linear inequalities (Foundation)</li> <li>Averages</li> <li>Averages from a table</li> </ul>	<ul style="list-style-type: none"> <li>Pictograms, Stem and leaf diagrams, bar charts, pie charts, scatter graphs</li> <li><b>End-of-year assessments</b></li> <li>Frequency polygons</li> <li>Systematic listing</li> <li>Pythagoras</li> <li>Trigonometry (Higher)</li> </ul>



# Year 11 Higher

Half term 1 September-October	Half term 2 October-December	Half term 3 January-February	Half term 4 February-April	Half term 5 April-May
<ul style="list-style-type: none"><li>• Area</li><li>• Surface area</li><li>• Volume</li><li>• Angles</li><li>• Bearings</li><li>• Similarity and congruence</li></ul>	<ul style="list-style-type: none"><li>• Transformations</li><li>• Circle theorems</li><li>• Linear graphs</li><li>• Perpendicular lines</li><li>• Tangents</li><li>• Solving quadratics</li><li>• Quadratic inequalities</li></ul>	<ul style="list-style-type: none"><li>• Simultaneous equations</li><li>• Cumulative frequency</li><li>• Histograms</li><li>• Plans and elevations</li><li>• 3D Pythagoras and trigonometry</li></ul>	<ul style="list-style-type: none"><li>• Functions</li><li>• Vectors</li><li>• Iteration</li><li>• Sine and cosine rule</li><li>• Area of a triangle</li></ul>	<ul style="list-style-type: none"><li>• Gradient and area under a curve</li><li>• Graph transformations</li><li>• Inequalities and regions</li><li>• Algebraic proof</li><li>• Constructions and loci</li></ul>



# Year 11 Foundation

---

Half term 1 September-October	Half term 2 October-December	Half term 3 January-February	Half term 4 February-April	Half term 5 April-May
<ul style="list-style-type: none"><li>• Trigonometry</li><li>• Area</li><li>• Cicles</li><li>• Arc length and area of a sector</li><li>• Volume</li><li>• Surface Area</li><li>• Vectors</li></ul>	<ul style="list-style-type: none"><li>• Angles</li><li>• Bearings</li><li>• Transformations</li><li>• Linear algebra</li><li>• Charts and graphs</li></ul>	<ul style="list-style-type: none"><li>• Quadratics</li><li>• Sequences</li><li>• Linear graphs</li><li>• Quadratic and Cubic graphs</li></ul>	<ul style="list-style-type: none"><li>• Simultaneous Equations</li><li>• Similarity</li><li>• Constructions and Loci</li><li>• Plans and elevations</li></ul>	<ul style="list-style-type: none"><li>• Revision</li></ul>



# Year 12

Half term 1 September-October	Half term 2 October-December	Half term 3 January-February	Half term 4 February-April	Half term 5 April-May	Half term 6 June-July
<ul style="list-style-type: none"> <li>Algebraic expressions</li> <li>Quadratics</li> <li>Straight line graphs</li> <li>Vectors</li> <li>Equations and inequalities</li> <li>Probability</li> <li>Statistical distributions</li> <li>Modelling in mechanics</li> </ul>	<ul style="list-style-type: none"> <li>Graphs and transformations</li> <li>Circles</li> <li>Algebraic methods and proof</li> <li>Binomial expansion</li> <li>Hypothesis testing</li> <li>Constant acceleration</li> </ul>	<ul style="list-style-type: none"> <li>Trigonometric ratios</li> <li>Differentiation</li> <li>Trigonometric identities and equations</li> <li>Data collection</li> <li>Measures of location and spread</li> </ul>	<ul style="list-style-type: none"> <li>Integration</li> <li>Exponentials and logarithms</li> <li>Forces and motion</li> <li>Representations of data</li> <li>Correlation</li> </ul>	<ul style="list-style-type: none"> <li>Algebraic methods (Y13)</li> <li>Sequences and series</li> <li>Variable acceleration</li> <li>Hypothesis testing (CR)</li> </ul>	<ul style="list-style-type: none"> <li>Binomial expansion (Y13)</li> <li>Moments (Y13)</li> </ul>



# Year 13

---

Half term 1 September-October	Half term 2 October-December	Half term 3 January-February	Half term 4 February-April	Half term 5 April-May
<ul style="list-style-type: none"><li>• Radians</li><li>• Further algebraic methods</li><li>• Functions and graphs</li><li>• Trigonometric functions</li><li>• Exponential models and correlation</li><li>• Moments</li></ul>	<ul style="list-style-type: none"><li>• Trigonometry and modelling</li><li>• Differentiation</li><li>• Integration</li><li>• Conditional probability</li><li>• Forces and friction</li><li>• Projectiles</li></ul>	<ul style="list-style-type: none"><li>• Parametric equations</li><li>• Numerical methods</li><li>• Further differentiation</li><li>• Normal distribution</li><li>• Application of forces</li></ul>	<ul style="list-style-type: none"><li>• Further integration</li><li>• Vectors</li><li>• Further kinematics</li></ul>	<ul style="list-style-type: none"><li>• Revision</li></ul>

