



## Year 7 Maths Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Integer number structures, introducing algebra and measurements		Numerical representations and Formulae and Sequences		Area and transformation and introducing ratio	
Knowledge Covered	<b>Integer number structures</b> <ul style="list-style-type: none"> <li>• Four rules</li> <li>• Multiples, factors, roots, powers and primes</li> <li>• Order of operations</li> <li>• Directed numbers</li> <li>• Rounding and estimation</li> </ul>	<b>Introducing algebra</b> <ul style="list-style-type: none"> <li>• Algebraic notation</li> <li>• Simplifying expressions</li> <li>• Solving simple equations</li> </ul> <b>Measurements</b> <ul style="list-style-type: none"> <li>• Properties of 2D and 3D shape (including symmetry)</li> <li>• Time</li> <li>• Metric conversions</li> <li>• Properties of angles</li> <li>• Angle reasoning</li> <li>• Construction of basic 2D shapes</li> </ul>	<b>Numerical representation</b> <ul style="list-style-type: none"> <li>• Decimals</li> <li>• Fractions</li> <li>• FDP</li> <li>• Percentages</li> <li>• Powers and roots</li> <li>• Prime factor decomposition</li> <li>• HCF and LCM</li> </ul>	<b>Formulae and sequences</b> <ul style="list-style-type: none"> <li>• Substitution and formulae</li> <li>• Functions</li> <li>• Sequences</li> </ul>	<b>Area and transformation</b> <ul style="list-style-type: none"> <li>• Area of 2D shapes</li> <li>• Tessellation</li> <li>• Transformation of 2D shapes</li> </ul>	<b>Introducing ratio</b> <ul style="list-style-type: none"> <li>• Ratio notation</li> <li>• Relationship between fraction and ratio</li> <li>• Sharing into ratio</li> </ul>
Online Resources	Hegarty Maths BBC bitesize					



## Year 8 Maths Curriculum

	Autumn 1	Autumn 2	Spring Term 1	Spring Term 2	Summer 1	Summer 2
Topic	Equations, inequalities and graphs	Estimating	Rates of change	Statistics	Angles and 3D shapes	
Knowledge Covered	<ul style="list-style-type: none"> <li>Forming and solving equations</li> <li>Representing and solving inequalities</li> <li>Linear graphs and parallel lines</li> </ul>	<ul style="list-style-type: none"> <li>Rounding</li> <li>Estimation</li> <li>Bounds</li> </ul>	<ul style="list-style-type: none"> <li>Scales and maps</li> <li>Rates of change</li> <li>Ratio notation</li> <li>Relationship between fraction and ratio</li> <li>Direct and Inverse proportion (including with algebra and graphs)</li> </ul>	<ul style="list-style-type: none"> <li>Construct and interpret graphs</li> <li>Mean, Mode and median and range including outliers</li> <li>Scatter graphs (including best fit and interpolation/extrapolation)</li> </ul>	<ul style="list-style-type: none"> <li>Exterior and interior angles in polygons</li> <li>Angles in parallel lines</li> <li>Reasoning with angles</li> <li>Area and volume (including circles, composites, prisms)</li> <li>3D nets and surface area (including prisms)</li> </ul>	
Online Resources	Hegarty Maths BBC bitesize					



## Year 9 Maths Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	<b>Quadratics and Probability</b>	<b>Constructions, Congruence and Pythagoras</b>	<b>Ratio and Proportion</b>	<b>Simultaneous Equations and Powers</b>	<b>Similarity and Trigonometry Numbers in context</b>	
Knowledge Covered	<p><b>Quadratics</b></p> <ul style="list-style-type: none"> <li>• Expanding quadratic expressions including those with more than two binomials</li> <li>• Plotting quadratics</li> </ul> <p><b>Probability</b></p> <ul style="list-style-type: none"> <li>• Theoretical and experimental probability</li> <li>• Single and combined events</li> <li>• Venn diagrams</li> <li>• Sample spaces and two-way tables</li> <li>• Tree diagrams</li> </ul>	<ul style="list-style-type: none"> <li>• Construction</li> <li>• Congruence</li> <li>• Loci</li> <li>• Pythagoras' theorem</li> </ul>	<ul style="list-style-type: none"> <li>• Percentage change problems</li> <li>• Simple interest</li> <li>• Problem-solving with ratio and proportion</li> </ul>	<ul style="list-style-type: none"> <li>• Linear simultaneous equations (graphical and algebraic)</li> <li>• Index notation</li> </ul>	<p><b>Similarity and trigonometry</b></p> <ul style="list-style-type: none"> <li>• Similar shapes</li> <li>• Area and volume of similar shapes</li> <li>• Right-angled trigonometry</li> </ul> <p><b>Numbers in context</b></p> <ul style="list-style-type: none"> <li>• Standard form</li> <li>• Problem-solving with number</li> </ul>	
Online Resources	Hegarty Maths BBC bitesize					