

# Long Term Plan – Key Stage 3 - Maths

The intent of Key Stage 3 Mathematics is to contribute to the personal development and overall understanding and application of maths for all pupils. The course will encourage, maintain and stimulate pupils' interest and enjoyment of Mathematics whilst enabling students to develop Mathematical skills supported by a toolkit of concepts, facts, techniques and vocabulary. Key Stage 3 Maths will stretch student's capabilities, skills, and understanding of Mathematics required for their present needs, both in and out of school, and to prepare for the future demands of adult life through various personal development trips, days and activities, ultimately fostering an appreciation of Mathematics and an awareness of its importance in society and technology.

Year 7					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>Number</b></p> <ul style="list-style-type: none"> <li>Rounding and Estimating</li> <li>Adding and subtracting decimals</li> <li>Negative numbers</li> <li>BIDMAS</li> </ul> <p><b>Algebra</b></p> <ul style="list-style-type: none"> <li>Expressions, formulae</li> <li>Linear equations</li> </ul>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Measures and scale drawings</li> <li>Properties of angles</li> </ul> <p><b>Number</b></p> <ul style="list-style-type: none"> <li>Number properties</li> </ul>	<p><b>Number</b></p> <ul style="list-style-type: none"> <li>Decimals, Fractions and Percentages</li> </ul> <p><b>Algebra</b></p> <ul style="list-style-type: none"> <li>Number and sequences</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Constructions and loci</li> </ul> <p><b>Probability</b></p> <ul style="list-style-type: none"> <li>Probability and events</li> </ul>	<p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>Representation and interpretation</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Perimeter, area of plane shapes and volume of prisms</li> </ul>	<p><b>Ratio and proportion</b></p> <ul style="list-style-type: none"> <li>Ratio and proportion</li> </ul> <p><b>Algebra</b></p> <ul style="list-style-type: none"> <li>Linear Graphs</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Transformations</li> </ul>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Constructions</li> </ul> <p><b>Number</b></p> <ul style="list-style-type: none"> <li>Negative Numbers</li> </ul>
Year 8					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p><b>Number</b></p> <ul style="list-style-type: none"> <li>Rounding and Approximation</li> <li>Decimals</li> <li>Negative numbers</li> <li>BIDMAS</li> <li>Powers and standard form</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Angles facts</li> </ul>	<p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>Representation and interpretation</li> </ul> <p><b>Number</b></p> <ul style="list-style-type: none"> <li>Number properties</li> </ul> <p><b>Algebra</b></p> <p>Expressions and formula</p>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Measures, perimeter and area of plane shapes</li> </ul> <p><b>Number</b></p> <ul style="list-style-type: none"> <li>Decimals and fractions</li> </ul>	<p><b>Probability</b></p> <ul style="list-style-type: none"> <li>Probability and events</li> </ul> <p><b>Algebra</b></p> <ul style="list-style-type: none"> <li>Linear equations</li> </ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Volume and surface area of prisms</li> </ul>	<p><b>Algebra</b></p> <ul style="list-style-type: none"> <li>Number and sequences</li> </ul> <p><b>Ratio and Proportion</b></p> <ul style="list-style-type: none"> <li>Ratio and proportion</li> </ul> <p><b>Algebra</b></p> <ul style="list-style-type: none"> <li>Linear graphs</li> </ul>	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>Transformations</li> </ul>

## Year 9

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p style="text-align: center;"><b>Number</b></p> <ul style="list-style-type: none"> <li>• Number properties, powers and standard form</li> <li>• Factors and Multiples</li> </ul> <p style="text-align: center;"><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Angles facts, construction and loci</li> <li>• Scale Measure and Bearings</li> </ul> <p style="text-align: center;"><b>Algebra</b></p> <ul style="list-style-type: none"> <li>• Linear equations</li> </ul>	<p style="text-align: center;"><b>Number</b></p> <ul style="list-style-type: none"> <li>• Fractions</li> <li>• Decimals</li> <li>• Rounding</li> </ul> <p style="text-align: center;"><b>Algebra</b></p> <ul style="list-style-type: none"> <li>• Linear graphs</li> </ul> <p style="text-align: center;"><b>Statistics</b></p> <ul style="list-style-type: none"> <li>• Charts, tables and averages</li> </ul> <p style="text-align: center;">Representation and interpretation</p>	<p style="text-align: center;"><b>Algebra</b></p> <ul style="list-style-type: none"> <li>• Sequences</li> </ul> <p style="text-align: center;"><b>Number</b></p> <ul style="list-style-type: none"> <li>• Percentages</li> </ul> <p style="text-align: center;"><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Perimeter and area</li> </ul>	<p style="text-align: center;"><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Circumference and area</li> </ul> <p style="text-align: center;"><b>Ratio and Proportion</b></p> <ul style="list-style-type: none"> <li>• Ratio and proportion</li> </ul> <p style="text-align: center;"><b>Probability</b></p> <ul style="list-style-type: none"> <li>• Probability and events</li> </ul>	<p style="text-align: center;"><b>Statistics</b></p> <ul style="list-style-type: none"> <li>• Charts, tables and averages</li> </ul> <p style="text-align: center;"><b>Algebra</b></p> <ul style="list-style-type: none"> <li>• Simultaneous equations and inequalities</li> </ul>	<p style="text-align: center;"><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Transformations</li> <li>• Right angled triangles /Pythagoras</li> <li>• 2D and 3D shapes</li> </ul>