

### **Key Stage 3 - Year 7**

Term One	Term Two	Term Three
<ul> <li>Addition and Subtraction</li> <li>Place value</li> <li>Add and subtract with decimals</li> <li>Add and subtract with negative numbers</li> <li>Perimeter</li> <li>Algebraic notation</li> <li>Simplifying by collecting like terms</li> </ul>	<ul> <li>Data Diagrams</li> <li>Different types of data</li> <li>Data collection and questionnaires</li> <li>Frequency tables</li> <li>Draw and interpret statistical diagrams including:         <ul> <li>Pictograms</li> <li>Composite bar charts</li> <li>Pie charts</li> <li>Line graphs</li> <li>Scatter graphs</li> </ul> </li> </ul>	<ul> <li>Angles</li> <li>Draw and measure angles, including use of angle notation</li> <li>Basic angle properties</li> <li>Angle properties within parallel lines</li> <li>Properties of triangles and quadrilaterals</li> <li>Construction of triangles</li> </ul>
<ul> <li>Multiplication and Division</li> <li>Powers of 10</li> <li>Multiply and divide with decimals</li> <li>Multiply and divide with negative numbers</li> <li>Order of Operations</li> <li>Multiplicative reasoning</li> <li>Factors, multiples, HCF, LCM</li> <li>Area of triangles and quadrilaterals</li> </ul>	<ul> <li>Applications of Algebra</li> <li>Forming expressions</li> <li>Substitution</li> <li>Expanding linear brackets</li> <li>Factorising linear expressions</li> <li>Forming and solving equations</li> </ul>	<ul> <li>Fractions and Percentages (Non-Calc)</li> <li>Representing fractions</li> <li>Equivalent fractions</li> <li>Compare and order fractions</li> <li>Convert between mixed numbers and improper fractions</li> <li>Fractions of quantities</li> <li>Multiply and divide with fractions</li> <li>Fraction, decimal and percentage equivalents</li> <li>Percentage of amounts</li> <li>Percentage increase and decrease</li> </ul>



### **Key Stage 3 - Year 8**

Term One	Term Two	Term Three
<ul> <li>Ratio and Proportion</li> <li>Ratio notation and equivalence</li> <li>Direct proportion</li> <li>Conversion of measures</li> <li>Conversion graphs</li> <li>Sharing into ratio and problem solving</li> <li>Speed, distance and time</li> <li>Travel graphs</li> </ul>	<ul> <li>Squares and Cubes</li> <li>Squares and cube numbers</li> <li>Index rules</li> <li>Rounding and estimating</li> </ul>	<ul> <li>Primes and Averages</li> <li>Prime factorisation and HCF and LCM</li> <li>Mean, median, mode and range</li> <li>Averages using frequency tables</li> <li>Comparing data sets</li> </ul>
Algebraic Expressions	Geometry	Fractions and Percentages (Calc) and Graphs
<ul> <li>Inequalities</li> <li>Expanding double brackets</li> <li>Simultaneous equations</li> <li>Factorising quadratic expressions</li> </ul>	<ul> <li>Area of quadrilaterals</li> <li>Area and circumference of a circle</li> <li>2d representations of 3d shapes</li> <li>Surface area</li> <li>Volume</li> </ul>	<ul> <li>Adding and subtracting fractions (non-calc)</li> <li>Convert between FDP</li> <li>Percentage of an amount, increase and decrease</li> <li>Percentage change</li> <li>Reverse percentages</li> <li>Horizontal and vertical graphs</li> <li>Linear graphs y = mx + c</li> <li>Gradient</li> <li>Equations from graphs</li> </ul>



#### Key Stage 3 - Year 9 - Set 1

Term One	Term Two	Term Three
<ul> <li>Pythagoras and basic trigonometry</li> <li>Ratio and proportion</li> <li>Probability</li> <li>Equations and algebraic fractions</li> <li>Rearranging formulae</li> <li>Linear graphs</li> <li>Transformations</li> </ul>	<ul> <li>Indices and surds</li> <li>Area and perimeter</li> <li>Perimeter, circumference and area</li> <li>Standard form</li> <li>Scatter graphs</li> </ul>	<ul> <li>Angles</li> <li>Properties of polygons</li> <li>Statistical measures</li> <li>Statistical diagrams</li> <li>Inequalities</li> <li>Quadratic equations</li> <li>Factors and multiples (algebraic)</li> <li>Speed, distance, time and travel graphs</li> <li>Volume</li> </ul>

#### Key Stage 3 - Year 9 - Set 2

Term One	Term Two	Term Three
<ul> <li>Pythagoras theorem</li> <li>Ratio and proportion</li> <li>Probability</li> <li>Algebraic manipulation</li> <li>Solving equations</li> <li>Co-ordinates and Linear graphs</li> <li>Transformations</li> </ul>	<ul> <li>Rounding and estimating</li> <li>Indices</li> <li>Perimeter and area</li> <li>Circumference and area</li> <li>Standard form</li> <li>Scatter graphs</li> </ul>	<ul> <li>Angles</li> <li>Properties of polygons</li> <li>Statistical measures</li> <li>Statistical diagrams</li> <li>Fractions and decimals</li> <li>Inequalities</li> <li>Factors and multiples</li> <li>Speed, distance, time and travel graphs</li> <li>Volume</li> </ul>



### Key Stage 3 - Year 9 - Set 3

Term One	Term Two	Term Three
<ul> <li>Angles</li> <li>Ratio and proportion</li> <li>Probability</li> <li>Algebraic manipulation</li> <li>Solving equations</li> <li>Co-ordinates and Linear graphs</li> <li>Transformations</li> </ul>	<ul> <li>Basic number</li> <li>Rounding and estimating</li> <li>Indices</li> <li>Perimeter and area</li> <li>Circumference and area</li> <li>Percentages</li> <li>Scatter graphs</li> </ul>	<ul> <li>Properties of polygons</li> <li>Statistical measures</li> <li>Statistical diagrams</li> <li>Fractions and decimals</li> <li>Inequalities</li> <li>Factors and multiples</li> <li>Speed, distance, time and travel graphs</li> <li>Volume</li> </ul>