



Department:	Mathematics
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Year 7 Course Summary

The Year 7 Mathematics syllabus ensures that the foundations of Key Stage 2 (such as Negative Numbers, Fractions and Algebraic Representation) are secure in all students, reinforces cross-curricular skills (such as Statistics and Calculator Use) and develops problem solving skills.

<p>Powers and Roots Negative Numbers Squaring and Roots Algebraic Notation Prime Factors HCF LCM Index Laws</p> <p>Expressions and Formulae Collecting Like Terms Substitution into Formulae Sequences Solving Equations Subject of a Formula</p> <p>Measures and Mensuration Area and Perimeter of Common Shapes Area of a Circle Circumference Volume of Prisms Surface Area</p> <p>Functions and Graphs Coordinates Gradient Linear Graphs Direct Proportion</p>	<p>Enquiry Averages and Range Frequency Polygon Bar Charts Questionnaires Stem and Leaf Grouped Frequency Data Collection</p> <p>Proportional Reasoning Simplifying Fractions Comparing Fractions Adding/Subtracting Fractions Multiplying/Dividing Fractions Fractions of Amounts Converting between Fractions, Decimals and Percentages Percentage Change Ratio</p> <p>Calculations and Calculators Using a Calculator Place Value in Calculations Decimal Places Estimation Adding/Subtracting Decimals Multiplying/Dividing Decimals</p> <p>2D and 3D Shapes Parallel Line Geometry Angles on a Straight Line Angles in a Triangle Angles in a Quadrilateral Plans and Elevations Nets</p>	<p>Maths Challenge Problem Solving</p> <p>Probability Probability Scales Sample Space Calculating Probabilities Mutually Exclusive Events</p> <p>Proof Expanding a Single Bracket Factorising a Single Bracket Expanding Double Brackets Simple Algebraic Proof</p>
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IST Assessments:

There will be IST Assessments at the end of each of the modules indicated in bold.