

Maths Department

Curriculum Overview - Year 9 Foundation

The Big Picture:

Year 9 will study: Calculations using both calculator and non-calculator, Estimating calculations, Expressions, Angles and Polygons, Handling Data, Functions, Geometry-Transformations and area of 2D shapes and Probability.

<p>Term 1: Calculations: Rounding decimal places, significant figures, Bidmas and multiplying and dividing problem solving. Expressions: Simplifying expressions, Laws of Indices, expanding and factorising.</p> <p>Green Task: Based on Kerboodle end of topic test Assessment Objectives covered –AO1, AO2.</p>	<p>Term 4: Formulae and functions: Formulae, functions, changing the subject, expanding and factorising and composite functions. Working in 2D: measuring lengths and angles, area of 2D shapes including composite shapes, Transformations- translating, rotating, reflection and enlargements including negative enlargements.</p> <p>Green Task: Based on Kerboodle end of topic test Assessment Objectives covered – AO1, AO2</p>
<p>Term 2: Expressions: Algebraic fractions and problem solving questions on algebraic fractions. Angles and Polygon: Angles and lines, Triangles and quadrilaterals, angles in polygons and Congruency and similarity.</p> <p>Green Task: Based on Kerboodle end of topic test Assessment Objectives covered - AO1, AO2</p>	<p>Term 5: Probability: Introduction to probability, Experimental and theoretical probabaility, mutually exclusive and exhaustive events.</p> <p>Measures and Accuracy: Estimation and approximation, calculator methods, measures and accuracy.</p> <p>Green Task: Based on Kerboodle end of topic test Assessment Objectives covered – AO1, AO2</p>
<p>Term 3: Handling Data 1: Sampling, organising and representing data, Averages and spread.</p> <p>Fractions, decimals and percentages: Calculations involving fractions, problem solving skills on percentages and fractions. Conversion from decimals to percentages to fractions.</p> <p>Green Task: Based on Kerboodle end of topic test Assessment Objectives covered – AO1, AO2</p>	<p>Term 6: Equations and Inequalities: solving one step, two step equations, solving quadratic equations and solving simultaneous equations. Revision on the above topics covered. Exam style questions involving G5-9. End of year test. Marking and feedback.</p> <p>Green Task: Based on Kerboodle end of topic test Assessment Objectives covered – AO1, AO2</p>