

Maths Department

Curriculum Overview - Year 10 Higher

The Big Picture:

Year 10 Higher will study: Equations and inequalities, Circles and constructions, ratio and proportion, factors powers and roots; Linear graphs including kinematic graphs; 3D shapes; Data handling; Calculations.

<p>Term 1:</p> <p>Equations and Inequalities: Solve linear equations and inequalities; Factorise and solve quadratic equations; Solve quadratic inequalities; Solve two equations linear/quadratic simultaneously; Approximate solutions.</p> <p>Circles and constructions: Find areas and circumference of Circles; Construct geometrical shapes; Loci; Circle theorems;</p> <p>Green Task: Based on Kerboodle end of Topic test. Assessment Objectives covered: AO1 ;AO2; AO3</p>	<p>Term 4:</p> <p>3D shapes Identification of 3D shapes; Calculating volume and surface area of 3D shapes; Green Task: Based on Kerboodle end of Topic test.</p> <p>Assessment Objectives covered – AO1 ;AO2; AO3</p>
<p>Term 2:</p> <p>Ratio and Proportion: Understand ratio and proportion, Calculate percentages and solve problems involving percentage change.</p> <p>Factors, powers and roots Find factors and multiples, prime factors, find LCM and HCF by prime factor decomposition; Surds Green Task: Based on Kerboodle end of Topic test.</p> <p>Assessment Objectives covered - AO1 ;AO2;AO3</p>	<p>Term 5:</p> <p>Data Handling: Frequency diagrams; averages and spread; scatter graphs and correlation; time series; Box plots and cumulative frequency graphs. Green Task: Based on Kerboodle end of Topic test.</p> <p>Assessment Objectives covered – AO1 ;AO2;AO3</p>
<p>Term 3:</p> <p>Graphs: Drawing straight line graphs, Finding the equation of a straight line; Kinematic graphs; Quadratic and linear graphs.</p> <p>Green Task: Based on Kerboodle end of Topic test.</p> <p>Assessment Objectives covered – AO1; AO2; AO3</p>	<p>Term 6:</p> <p>Calculations: Calculating with roots and indices; exact calculations involving fractions and surds; Calculations involving geometrical shapes; Standard form. Green Task: Based on Kerboodle end of Topic test.</p> <p>Assessment Objectives covered – AO1; AO2; AO3.</p>