



Year 10 Accelerated Learning Scheme of Work

Overview	<p>The purpose of the Maths curriculum is to equip students with uniquely powerful ways to describe, analyse and solve problems and to make them more prepared for the real world.</p> <p>We do this by providing a secure understanding of mathematical concepts, from basic principles of mathematics to complex topics that combine several areas of study into a single question.</p> <p>In Year 1 we continue to concentrate on retention of knowledge and depth of learning. In doing this, all our students have the opportunity to master key skills.</p> <p>In year 10 the accelerate the learning allows for the extra content required in the Higher Scheme of Work.</p>
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Autumn Term	Half Term 1	Half Term 2	Assessment
	<p><i>Equations and Inequalities</i></p> <p>9.1 Solving quadratic equations 1 9.2 Solving quadratic equations 2 9.3 Completing the square 9.4 Solving simple simultaneous equations 9.5 More simultaneous equations 9.6 Solving linear and quadratic simultaneous equations 9.7 Solving linear inequalities</p> <p><i>Probability</i></p> <p>10.1 Combined events 10.2 Mutually exclusive events</p>	<p><i>Probability Continued</i></p> <p>10.3 Experimental probability 10.4 Independent events and tree diagrams 10.5 Conditional probability 10.6 Venn diagrams and set notation</p> <p><i>Multiplicative Reasoning</i></p> <p>11.1 Growth and decay 11.2 Compound measures 11.3 More compound measures 11.4 Ratio and proportion</p>	<p>Half Term 1</p> <p>The week before half term break we have our first Foundation GCSE Paper.</p> <p>Half Term 2</p> <p>Just before Christmas Break. Covering content from Autumn Term.</p>

Spring Term	Half Term 3	Half Term 4	Assessment
	<p><i>Similarity and congruency</i></p> <p>12.1 Congruence 12.2 Geometric proof and congruence 12.3 Similarity 12.4 More similarity 12.5 Similarity in 3D solids</p> <p><i>More Trigonometry</i></p> <p>13.1 Accuracy 13.2 Graph of the sine function 13.3 Graph of the cosine function 13.4 The tangent function 13.5 Calculating areas and the sine rule</p>	<p><i>More Trigonometry Continued</i></p> <p>13.6 The cosine rule and 2D trigonometric problems 13.7 Solving problems in 3D 13.8 Transforming trigonometric graphs 1 13.9 Transforming trigonometric graphs 2</p> <p><i>Further Statistics</i></p> <p>14.1 Sampling 14.2 Cumulative frequency 14.3 Box plots 14.4 Drawing histograms 14.5 Interpreting histograms 14.6 Comparing and describing populations</p>	<p>Half Term 3</p> <p>The week before half term break we have our 2nd Foundation GCSE Paper.</p> <p>Half Term 4</p> <p>Just before Easter Break. Covering content from Autumn Term and Spring Term</p>

Summer Term	<p>Equations and Graphs</p> <p>15.1 Solving simultaneous equations graphically</p> <p>15.2 Representing inequalities graphically</p> <p>15.3 Graphs of quadratic functions</p> <p>15.4 Solving quadratic equations graphically</p> <p>15.5 Graphs of cubic functions</p> <p>More Algebra</p> <p>16.1 Radii and chords</p> <p>16.2 Tangents</p> <p>16.3 Angles in circles 1</p> <p>16.4 Angles in circles 2</p> <p>16.5 Applying circle theorems</p>	<p>Proof</p> <p>17.1 Rearranging formulae</p> <p>17.2 Algebraic fractions</p> <p>17.3 Simplifying algebraic fractions</p> <p>17.4 More algebraic fractions</p> <p>17.5 Surds</p> <p>17.6 Solving algebraic fraction equations</p> <p>17.7 Functions</p> <p>17.8 Proof</p> <p>After EOY assessment if time allows recap of Geometry</p> <p>8.1 3D solids</p> <p>8.2 Reflection and rotation</p> <p>8.3 Enlargement</p> <p>8.4 Transformations and combinations of transformations</p> <p>8.5 Bearings and scale drawings</p> <p>8.6 Constructions 1</p> <p>8.7 Constructions 2</p> <p>8.8 Loci</p>	Assessment
	<p>Half Term 5</p> <p>Last Week of HT5 third GCSE Foundation Paper</p> <p>Half Term 6</p> <p>Summer Exam these exams cover all the topics learnt in year 9 in equal measures.</p>		

Useful Resources for Supporting Your Child at Home:	Homework:
<ul style="list-style-type: none"> ■ whgs-academy.sparxmaths.uk ■ curriculum.unitedlearning.org.uk ■ trockstars.com ■ www.bbc.co.uk/bitesize/subjects/zqhs34j ■ mmerevise.co.uk 	<p>Sparx Homework is set automatically weekly, and students have 7 days to achieve 100%</p>