

## Year 11 Mathematics Curriculum Map 2017/2018

Year 11	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<b>Higher</b> 11ad1 11ad2 11ad3 11ad4	<b>Ch13 - More Trig (01/09/17)</b> <ul style="list-style-type: none"> <li>• Accuracy</li> <li>• Graph of the sine function</li> <li>• Graph of the cosine function</li> <li>• The tangent function</li> <li>• Calculating areas &amp; the sine rule</li> <li>• The cosine rule &amp; 2D trigonometric problems</li> <li>• Solving problems in 3D</li> <li>• Transforming trigonometric graphs 1</li> <li>• Transforming trigonometric graphs 2</li> </ul> <b>Ch14 - Further Stats (02/10/17)</b> <ul style="list-style-type: none"> <li>• Sampling</li> <li>• Cumulative frequency</li> <li>• Box plots</li> <li>• Drawing histograms</li> <li>• Interpreting histograms</li> <li>• Comparing &amp; describing populations</li> </ul>	<b>Ch15 - Equations &amp; Graphs (20/11/17)</b> <ul style="list-style-type: none"> <li>• Solving simultaneous equations graphically</li> <li>• Representing inequalities graphically</li> <li>• Graphs of quadratic functions</li> <li>• Solving quadratic functions graphically</li> </ul> <b>Ch16 - Circle Theorems (11/12/17)</b> <ul style="list-style-type: none"> <li>• Radii &amp; chords</li> <li>• Tangents</li> <li>• Angles in circles 1</li> <li>• Angles in circles 2</li> <li>• Applying circle theorems</li> </ul>	<b>Chapter 17 More Algebra (08/01/18)</b> <ul style="list-style-type: none"> <li>• Rearranging formulae</li> <li>• Algebraic fractions</li> <li>• Simplifying algebraic fractions</li> <li>• More algebraic fractions</li> <li>• Surds</li> <li>• Solving algebraic fraction equations</li> <li>• Functions</li> <li>• Proofs</li> </ul> <b>Chapter 18 Vectors &amp; geometric proof (29/01/18)</b> <ul style="list-style-type: none"> <li>• Vectors &amp; vector notations</li> <li>• Vector arithmetic</li> <li>• Parallel vectors &amp; collinear points</li> <li>• Solving geometric problems</li> </ul>	<b>Chapter 19 Proportion &amp; graphs (19/03/18)</b> <ul style="list-style-type: none"> <li>• Direct proportion</li> <li>• More direct proportion</li> <li>• Inverse proportion</li> <li>• Exponential function</li> <li>• Non-linear graphs</li> <li>• Translating graphs of functions</li> <li>• Reflecting &amp; stretching graphs of functions</li> </ul>	Revision & exam technique	Revision & exam technique
<b>Foundation</b> 11ad5 11ad6	<b>Chapter 14 Multiplicative reasoning (04/09/17)</b> <ul style="list-style-type: none"> <li>• Percentages</li> <li>• Growth &amp; decay</li> <li>• Compound measures</li> <li>• Distance, speed &amp; time</li> <li>• Direct &amp; inverse proportion</li> </ul> <b>Chapter 15 Constructions &amp; loci (02/10/17)</b> <ul style="list-style-type: none"> <li>• 3D solids</li> </ul>	<b>Chapter 16 Quadratic equations &amp; graphs (20/11/17)</b> <ul style="list-style-type: none"> <li>• Expanding double brackets</li> <li>• Plotting quadratic graphs</li> <li>• Using quadratic graphs</li> <li>• Factorising quadratic equations</li> <li>• Solving quadratic equations</li> </ul>	<b>Chapter 18 Fractions, indices &amp; standard form (01/01/18)</b> <ul style="list-style-type: none"> <li>• Multiplying &amp; dividing fractions</li> <li>• The laws of indices</li> <li>• Writing large numbers in standard form</li> <li>• Writing small numbers in standard form</li> <li>• Calculating with standard form</li> </ul>	<b>Chapter 20 More Algebra (12/03/18)</b> <ul style="list-style-type: none"> <li>• Graph of cubic &amp; reciprocal functions</li> <li>• Non-linear graphs</li> <li>• Solving simultaneous equations graphically</li> <li>• Solving simultaneous equations algebraically</li> <li>• Rearranging formulae</li> <li>• Proof</li> </ul>	Revision and exam technique (16/04/18)	Revision and exam technique (16/04/18)

Year 11	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
	<ul style="list-style-type: none"> <li>• Plans &amp; elevations</li> <li>• Accurate drawings 1</li> <li>• Scale drawings &amp; maps</li> <li>• Accurate drawings 2</li> <li>• Constructions</li> <li>• Loci and regions</li> <li>• Bearings</li> </ul>	<p><b>Chapter 17 Perimeter, area &amp; volume (04/12/17)</b></p> <ul style="list-style-type: none"> <li>• Circumference of a circle 2</li> <li>• Circumference of a circle 1</li> <li>• Area of a circle</li> <li>• Semicircles &amp; sectors</li> <li>• Composite 2D shapes &amp; cylinders</li> <li>• Pyramids &amp; cones</li> <li>• Spheres &amp; composite solids</li> </ul>	<p><b>Chapter 19 Congruence, similarity &amp; Vectors (22/01/18)</b></p> <ul style="list-style-type: none"> <li>• Similarity &amp; enlargement</li> <li>• More similarity</li> <li>• Using similarity</li> <li>• Congruence 1</li> <li>• Congruence 2</li> <li>• Vectors 1</li> <li>• Vectors 2</li> </ul>			