

## Curriculum Map - Mathematics - Year 7

	What is being learnt?	Remote learning links
Autumn 1	<ul style="list-style-type: none"><li>• Properties of numbers</li><li>• Fractions and percentages</li><li>• Calculations with fractions and decimals</li><li>• Convert between fractions and decimals</li><li>• Properties and areas of polygons</li><li>• Angles in parallel lines</li></ul>	Hegarty Maths  Kerboodle text book
Autumn 2	<ul style="list-style-type: none"><li>• Statistical tables, charts and diagrams</li><li>• Linear algebra: simplify, substitute</li><li>• Function machines</li><li>• Standard units of measure and related concepts</li></ul>	Hegarty Maths  Kerboodle text book

## Curriculum Map Mathematics - Year 8

	What is being learnt?	Remote learning links
Autumn 1	<ul style="list-style-type: none"> <li>• Properties of angles at a point, in parallel lines, in triangles.</li> <li>• Interior angle sum of any polygon</li> <li>• Symmetry, reflection, rotation</li> <li>• Maps and scale drawings; bearings</li> <li>• Pythagoras' Theorem</li> <li>• Properties of isosceles triangles</li> <li>• Geometric proof</li> <li>• Statistical tables, charts and diagrams; measures of central tendency and spread</li> <li>• Simplify and manipulate algebraic expressions; expand double brackets; factorise quadratic expressions</li> <li>• Understand, form and substitute into formulae</li> <li>• Functions machines; inverse functions.</li> </ul>	<p>Hegarty Maths</p> <p>Kerboodle text book</p>
Autumn 2	<ul style="list-style-type: none"> <li>• Properties of circles</li> <li>• Calculate arc length, area of sector</li> <li>• Area of 2D shapes; volume of prisms</li> <li>• Units of time, length, area, volume, mass</li> <li>• Solve linear equations algebraically, including with unknowns on both sides</li> </ul>	<p>Hegarty Maths</p> <p>Kerboodle text book</p>

## Curriculum Map - Mathematics - Year 9

	What is being learnt?	Remote learning links
Autumn 1	<ul style="list-style-type: none"><li>• Algebraic manipulation, including algebraic fractions</li><li>• Use algebra to support and construct arguments and proofs</li><li>• Rearrange formulae to change the subject</li><li>• Expand and factorise double brackets</li><li>• Calculate with fractions and mixed numbers</li><li>• Convert fractions to terminating and non-terminating decimals; perform calculations</li></ul>	Hegarty Maths  Kerboodle text book
Autumn 2	<ul style="list-style-type: none"><li>• Angles at a point, straight line, intersecting lines, parallel lines</li><li>• Sum of angles in a triangle and any polygon</li><li>• Use basic congruence criteria for triangles</li><li>• Apply concepts of congruence and similarity for length, area and volume</li><li>• Transformation of shapes on a graph (rotation, reflection, translation, enlargement)</li><li>• Solve linear equations with one or two unknowns.</li><li>• Solve quadratic equations</li><li>• Translate simple procedures or situations into algebraic equations, interpret the solutions.</li></ul>	Hegarty Maths  Kerboodle text book

## Curriculum Map - Mathematics - Year 10

	What is being learnt?	Remote learning links
Autumn 1	<ul style="list-style-type: none"><li>• Solve quadratic equations</li><li>• Interpret gradients and intercepts of linear functions graphically and algebraically</li><li>• Solve geometrical problems on coordinate axes</li><li>• Shapes of graphs (algebraic, trigonometric)</li><li>• Plot and interpret graphs of non-standard functions in real contexts</li><li>• Calculate and interpret gradients of graphs, area under graphs</li><li>• Proportion as equality of ratios</li><li>• Systematic listing strategies</li></ul>	Hegarty Maths  Kerboodle text book
Autumn 2	<ul style="list-style-type: none"><li>• Upper and lower bounds, limits of accuracy</li><li>• Calculate exactly with surds, fractions and multiples of pi</li><li>• Solve linear and quadratic inequalities</li><li>• Apply and prove standard circle theorems</li><li>• Approximate solutions of equations using iteration</li></ul>	Hegarty Maths  Kerboodle text book

## Curriculum Map - Mathematics - Year 11

	What is being learnt?	Remote learning links
Autumn 1	<ul style="list-style-type: none"><li>• Circle theorems</li><li>• Iteration</li><li>• Algebraic proof</li><li>• Counting strategies</li><li>• Revision for November PQE</li></ul>	Hegarty Maths Kerboodle text book
Autumn 2	<ul style="list-style-type: none"><li>• Algebraic fractions</li><li>• Angles in polygons; bearings</li><li>• Congruence and similarity</li><li>• Handling data</li></ul>	Hegarty Maths Kerboodle text book

## Curriculum Map - Mathematics - Year 12

	What is being learnt?	Remote learning links
Autumn 1	<ul style="list-style-type: none"> <li>● Problem solving Ch1</li> <li>● Quadratic functions Ch3</li> <li>● Surds and indices Ch2</li> <li>● Equations and inequalities Ch4</li> <li>● Coordinate geometry Ch5</li> <li>● Trigonometry Ch6</li> <li>● Polynomials Ch7</li> </ul>	<p><a href="https://2017.integralmaths.org/">https://2017.integralmaths.org/</a></p> <p>Moodle A2 Maths</p> <p><a href="https://moodle.rainhammark.com/course/view.php?id=479">https://moodle.rainhammark.com/course/view.php?id=479</a></p>
Autumn 2	<ul style="list-style-type: none"> <li>● Graphs and transformations Ch8</li> <li>● Differentiation Ch10</li> <li>● Integration Ch11</li> <li>● Vectors Ch12</li> <li>● Exponentials and Logs Ch13</li> <li>● Data Collection Ch14</li> </ul>	<p><a href="https://2017.integralmaths.org/">https://2017.integralmaths.org/</a></p> <p>Moodle A2 Maths</p> <p><a href="https://moodle.rainhammark.com/course/view.php?id=479">https://moodle.rainhammark.com/course/view.php?id=479</a></p>

## Curriculum Map – Further Mathematics - Year 12

	What is being learnt?	Remote learning links
Autumn 1	<ul style="list-style-type: none"> <li>• Further Algebra Ch7</li> <li>• Further Differentiation Ch9</li> <li>• Parametric Equations Ch11</li> <li>• Trigonometric Functions Ch6</li> <li>• Trigonometric Identities Ch8</li> <li>• Integration Ch10</li> </ul>	<p><a href="https://2017.integralmaths.org/">https://2017.integralmaths.org/</a></p> <p>Moodle A2 Maths  <a href="https://moodle.rainhammark.com/course/view.php?id=479">https://moodle.rainhammark.com/course/view.php?id=479</a></p>
Autumn 2	<ul style="list-style-type: none"> <li>• Differential Equations Ch13</li> <li>• Vectors Ch12</li> <li>• Numerical Methods Ch14</li> <li>• Kinematics Ch18</li> </ul>	<p><a href="https://2017.integralmaths.org/">https://2017.integralmaths.org/</a></p> <p>Moodle A2 Maths  <a href="https://moodle.rainhammark.com/course/view.php?id=479">https://moodle.rainhammark.com/course/view.php?id=479</a></p>

## Curriculum Map - Mathematics - Year 13

	What is being learnt?	Remote learning links
Autumn 1	<ul style="list-style-type: none"><li>• Further Algebra Ch7</li><li>• Further Differentiation Ch9</li><li>• Parametric Equations Ch11</li><li>• Trigonometric Equations Ch6</li><li>• Trigonometric Identities Ch8</li><li>• Integration Ch10</li></ul>	<p><a href="https://2017.integralmaths.org/">https://2017.integralmaths.org/</a></p> <p>Moodle A2 Maths</p> <p><a href="https://moodle.rainhammark.com/course/view.php?id=479">https://moodle.rainhammark.com/course/view.php?id=479</a></p>
Autumn 2	<ul style="list-style-type: none"><li>• Differential Equations Ch13</li><li>• Vectors Ch12</li><li>• Numerical Methods Ch14</li><li>• Kinematics Ch18</li></ul>	<p><a href="https://2017.integralmaths.org/">https://2017.integralmaths.org/</a></p> <p>Moodle A2 Maths</p> <p><a href="https://moodle.rainhammark.com/course/view.php?id=479">https://moodle.rainhammark.com/course/view.php?id=479</a></p>



## Curriculum Map – Further Mathematics - Year 13

	What is being learnt?	Remote learning links
Autumn 1	<ul style="list-style-type: none"> <li>• Review of Chapters 1-4</li> <li>• Polar Coordinates Ch5</li> <li>• Maclaurin Series Ch6</li> <li>• Hyperbolic Functions Ch7</li> <li>• Applications of Integration Ch8</li> </ul>	<p><a href="https://2017.integralmaths.org/">https://2017.integralmaths.org/</a></p> <p>Moodle A2 Maths</p> <p><a href="https://moodle.rainhammark.com/course/view.php?id=479">https://moodle.rainhammark.com/course/view.php?id=479</a></p>
Autumn 2	<ul style="list-style-type: none"> <li>• First Order Differential Equations Ch9</li> <li>• Review complex numbers, roots of polynomials</li> <li>• Complex Numbers Ch10</li> <li>• Vectors Ch11</li> <li>• Second Order Differential Equations Ch12</li> </ul>	<p><a href="https://2017.integralmaths.org/">https://2017.integralmaths.org/</a></p> <p>Moodle A2 Maths</p> <p><a href="https://moodle.rainhammark.com/course/view.php?id=479">https://moodle.rainhammark.com/course/view.php?id=479</a></p>