

		Block 1	Block 2
Year 7	Topic:	<p>Making generalisations about the number system 1 and 2 Big Learning Question: What is a number? Knowledge and skills covered: Unit 1 – Numbers and Numerals 2 – Axioms and Arrays Unit 3 – Factors and Multiples Unit 4 – Order of operations Big Learning Question: why do we use y? Knowledge and skills covered: Unit 5 – Positive and Negative numbers Unit 6 – Introducing Sequences, Expressions and Equations</p>	<p>2D Geometry Big Learning Question: How do I find missing angles? Knowledge and skills covered: Unit 7 – Angles Unit 8 – Classifying 2D shapes Unit 9 – Constructing Triangles and Quadrilaterals</p>
	Assessment and other key info (beyond book work):	Pre-test before the block (50 mins) Post -Test at the end of Block 1 to measure progress (50 mins). Homework set on Hegarty Maths and published on Show My Homework. Following the Mathematics Mastery Programme.	Pre-test before the block (50 mins) Post -Test at the end of Block 2 to measure progress (50 mins). Homework set on Hegarty Maths and published on Show My Homework. Following the Mathematics Mastery Programme.
Year 8	Topic:	<p>Prime numbers, Factorisation and Calculating with Fractions BLQ: What's so special about prime numbers? Knowledge and skills covered: Unit 1 – Prime numbers and Factorisation Unit 2/3 – Calculating with Fractions</p>	<p>Algebra and 2D geometry BLQ: How do you solve an equation? Knowledge and skills covered: Unit 4 – Positive and Negative numbers Unit 5 – Sequences, Expressions and Equations BLQ: How can you draw a perfect triangle? Knowledge and skills covered: Unit 6/7 – Triangles and Quadrilaterals Unit 8 – Find Missing Angles Unit 9 – Area of Parallelograms and Trapezia</p>
	Assessment and other key info (beyond book work):	Pre-test before the block (50 mins) Post -Test at the end of Block 1 to measure progress (50 mins). Homework set on Hegarty Maths and published on Show My Homework. Following the Mathematics Mastery Programme.	Pre-test before the block (50 mins) Post -Test at the end of Block 2 to measure progress (50 mins). Homework set on Hegarty Maths and published on Show My Homework. Following the Mathematics Mastery Programme.
Subject: MATHEMATICS		Exam Board: AQA	

Year 9	Topic:	<p>Coordinates, Linear graphs, Proportion and Standard form, Algebraic expressions</p> <p>BLQ: What's the point of a graph?</p> <p>Knowledge and skills covered:</p> <p>Unit 1 – Coordinates</p> <p>Unit 2 – Linear graphs</p> <p>Unit 3 – Direct and Indirect Proportion</p> <p>Unit 4 – Scales and Standard Form</p> <p>BLQ: Why don't we change the subject?</p> <p>Knowledge and skills covered:</p> <p>Unit 5 – Sequences</p> <p>Unit 6 – Expanding and Factorising brackets</p> <p>Unit 7 – Changing the Subject of a Formula</p>	<p>2D Geometry</p> <p>BLQ: What's the difference between congruence and similarity?</p> <p>Knowledge and skills covered:</p> <p>Unit 8 – Constructions</p> <p>Unit 9 – Congruence and Similarity</p> <p>Unit 10 – Triangles and Quadrilaterals</p> <p>Unit 11 – Angles in Polygons</p>
	Assessment and other key info (beyond book work):	<p>Pre-test before the block (50 mins)</p> <p>Post -Test at the end of Block 1 to measure progress (50 mins).</p> <p>Homework set on Hegarty Maths including one written piece and published on Show My Homework. Following the Mathematics Mastery Programme.</p>	<p>Pre-test before the block (50 mins)</p> <p>Post -Test at the end of Block 1 to measure progress (50 mins).</p> <p>Homework set on Hegarty Maths including one written piece and published on Show My Homework. Following the Mathematics Mastery Programme.</p>
Year 10	Topic:	<p>Number and Geometry</p> <p>BLQ: How can I find my roots?</p> <p>Knowledge and skills covered:</p> <p>Unit 1 – Using Indices and Standard form</p> <p>Unit 2 – Geometric Change</p> <p>Unit 3 - Sequences</p> <p>H Unit 1 – Further number</p> <p>H Unit 2 – Recurrence Relations</p> <p>H Unit 3 – Further Sequences</p> <p>BLQ: How can I get my bearings?</p> <p>Knowledge and skills covered:</p> <p>Unit 4 – Enlargement and Similarity</p> <p>Unit 5 – Bearings and Trigonometry</p> <p>H Unit 4 – Further Transformations</p> <p>H Unit 5 – Triangles from 3D</p>	<p>Reasoning</p> <p>BLQ: How can I reason with algebra?</p> <p>Knowledge and skills covered:</p> <p>Unit 6 – Algebraic Reasoning</p> <p>Unit 7 – Geometric Reasoning</p> <p>Unit 8 - Vectors</p> <p>H Unit 6 – Trigonometric Graphs</p> <p>H Unit 7 – Proof</p> <p>H Unit 8 – Further Inequalities</p>
	Assessment and other key info (beyond book work):	<p>Pre-test before the block (50 mins)</p> <p>Post -Test at the end of Block 1 to measure progress (50 mins).</p> <p>Homework set on Hegarty Maths including one written piece and published on Show My Homework. Following the Mathematics Mastery Programme.</p>	<p>Pre-test before the block (50 mins)</p> <p>Post -Test at the end of Block 1 to measure progress (50 mins).</p> <p>Homework set on Hegarty Maths including one written piece and published on Show My Homework. Following the Mathematics Mastery Programme.</p>
Year 11	Topic:	<p>Circle Theorems, Number Problems</p>	<p>Constructions, Loci, Scale Drawings, Algebra, Statistics Revision, Geometry Revision, Number Revision</p>
	Assessment and other key info (beyond book work):	<p>Weekly Tests, Homework set using Hegarty Maths, one written homework and MOCK 1 Exam</p>	<p>Weekly Tests, Homework set using Hegarty Maths, one written homework and MOCK 2 Exam</p>

Lead teacher: Mrs Billings

Block 3

The Cartesian plane

Big Learning Question: What is area?

Knowledge and skills covered:

Unit 10 – Co-ordinates

Unit 11 – Area of 2D shapes

Unit 12 – Transforming 2D figures

Block 4

Fractions and Ratio and Proportion

Big Learning Question: What is a fraction?

Knowledge and skills covered:

Unit 13 – Prime factor decomposition

Unit 13b– Equivalent fractions

Unit 14 – All operations acting on Fractions

Big Learning Question: What is Ratio and when do I use them?

Knowledge and skills covered:

Unit 15 – Ratio

Unit 16 - Percentages

Post -Test at the end of Block 2 to measure progress (50 mins).

Homework set on Hegarty Maths and published on Show My Homework. Following the Mathematics Mastery Programme.

End of year Exam

Homework set on Hegarty Maths and published on Show My Homework. Following the Mathematics Mastery Programme.

Proportional Reasoning

BLQ: What has maths got to do with my life?

Knowledge and skills covered:

Unit 10 – Percentage Change

Unit 11 – Ratio and Rate

Statistics and 3D Geometry

BLQ: How does a journalist use maths?

Knowledge and skills covered:

Unit 12 – Collect and Organise data

Unit 13 – Present data

Unit 14 – Interpret and Compare Statistical Representations

BLQ: How does an architect use maths?

Knowledge and skills covered:

Unit 15 – Rounding, Significant Figures and Estimation

Unit 16 - Circumference and Area of a Circle

Unit 17 – 3D shapes and their nets

Unit 18 – Surface Area and Volume of Cuboids, Prisms, Cylinders and Composite Solids

Post -Test at the end of Block 2 to measure progress (50 mins).

Homework set on Hegarty Maths and published on Show My Homework. Following the Mathematics Mastery Programme.

End of year Exam

Homework set on Hegarty Maths and published on Show My Homework. Following the Mathematics Mastery Programme.

Lead teacher: Mrs Thompson

Equations and Inequalities**BLQ: How can you solve Simultaneous Equations?****Knowledge and skills covered:**

Unit 12 – Linear Equations and Inequalities

Unit 13 – Simultaneous Equations

Unit 14 – Quadratic and other graphs

Geometry and Statistics**BLQ: Who was Pythagoras?****Knowledge and skills covered:**

Unit 15 – Pythagoras and Trigonometry

Unit 16 – Transformations

Unit 17 - Probability

BLQ: What is the average?**Knowledge and skills covered:**

Unit 18 – Proof

Unit 19 – Mean from Grouped data

Unit 20 – Comparing Data Distributions

Unit 21 – Scatter Graphs

Post -Test at the end of Block 1 to measure progress (50 mins). Homework set on Hegarty Maths including one written piece and published on Show My Homework. Following the Mathematics Mastery Programme.	End of year Exam Homework set on Hegarty Maths including one written piece and published on Show My Homework. Following the Mathematics Mastery Programme.
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Geometry and number**BLQ: How can I reason with shapes?****Knowledge and skills covered:**

Unit 9 – Properties of 3D shapes

Unit 10 – Calculations with 3D shapes

Unit 11 – Geometric Reasoning

H Unit 9 – Upper and Lower Bounds

H Unit 10 – Similar Areas and Volumes

H Unit 11 – Trigonometry in all Triangles

Sampling, Probability and Applications of Algebra**BLQ: What are the chances?****Knowledge and skills covered:**

Unit 12 – Sampling

Unit 13 – Theoretical and Experimental Probability

Unit 14 – Combined Events

H Unit 12 – Conditional Probability

BLQ: How can I solve a Simultaneous Equation?**Knowledge and skills covered:**

Unit 15 – Quadratics

Unit 16 – Non-Linear Graphs

Unit 17 – Simultaneous Equations

H Unit 13 – Further Quadratics

H Unit 14 – Exponential Graphs

H Unit 15 – Algebraic Fractions

Post -Test at the end of Block 1 to measure progress (50 mins). Homework set on Hegarty Maths including one written piece and published on Show My Homework. Following the Mathematics Mastery Programme.	End of year Mock Exam Homework set on Hegarty Maths including one written piece and published on Show My Homework. Following the Mathematics Mastery Programme.
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GCSE Revision**GCSE Revision**

Weekly Tests, Homework set using Hegarty Maths and one written homework

Terminal Exam