

<b>Mathematics, Year 7</b>	
<b>Half term 1</b>	<b>Introduction – Algebra Unit</b> Introduction to algebra, Rules of algebra <b>Unit 1 – Numbers and the Number System</b> Square/Cube/Prime numbers, HCF/LCM, Calculator skills <b>Unit 2- Counting and Comparing</b> Directed number, Ordering integers and fractions <b>Unit 3 – Calculating</b> Multiplying and Dividing decimals, Written methods for division
<b>Half term 2</b>	<b>Unit 4 – Visualising and Constructing</b> Language of 3D shape, Geometric notation and Symmetry <b>Unit 5 – Investigating Properties of Shape</b> Faces/Edges/Vertices, Nets, Characteristics of 2D shapes Rules of Algebra, Substitution, Functions and Function Machines <b>Unit 6 – Exploring Fractions, Decimals, Percentages</b> Fractions of amounts, Simplifying Fractions, Improper Fractions/Mixed Numbers
<b>Half term 3</b>	<b>Unit 7 – Proportional Reasoning</b> Ratio notation, Simplifying ratio, Divide amounts into a given ratio <b>Unit 8 – Pattern Sniffing</b> Generating sequences, Discovering term-to-term rules, Solving sequencing problems <b>Unit 9 – Measuring Space</b> Measuring, Using decimals in measurement, Converting between metric and imperial measures
<b>Half term 4</b>	<b>Unit 10 – Investigating Angles</b> Angles around a point, Angles in triangles/quadrilaterals <b>Unit 11 – Calculating Fractions, Decimals, Percentages</b> Four operations with fractions, Calculating percentages
<b>Half term 5</b>	<b>Unit 12 – Solving Equations and Inequalities</b> Missing numbers, Solve one-step equations, Substitution <b>Unit 13 – Calculating Space</b> Area and Perimeter, Compound Shapes, Irregular Polygons <b>Unit 14 – Checking, approximating, estimating</b> Rounding, Estimation, Inverse Operations
<b>Half term 6</b>	<b>Unit 15 – Mathematical Movement</b> Graphs and Coordinates, Reflections, Rotations and Translations <b>Unit 16 – Presentation of Data</b> Categorising data, Frequency tables, Pie charts <b>Unit 17 – Measuring Data</b> Mean, Median, Mode and Range
<b>Homework expectations</b>	Students are expected to do at least one hour of homework each week which will support students in consolidating learning from lessons. This will be set using Hegarty Maths. Pupils will have a homework book to show workings.
<b>By the time you finish Year 7...</b>	Students should have developed the following: · Fluent knowledge, skills and understanding of mathematical methods and concepts · Acquire, select and apply mathematical techniques to solve problems · Reason mathematically, make deductions and inferences, and draw conclusions · Comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context