

Mathematics, Year 8	
Half term 1	<p>Unit 1 – Numbers and the Number System Product of Primes, HCF/LCM using Venn Diagrams, Significant Figures</p> <p>Unit 2- Calculating Four operations with directed numbers, Substitution (negatives), Calculator skills</p> <p>Unit 3 – Visualising and Constructing Enlargements, Plans and Elevations, Scale drawings</p>
Half term 2	<p>Unit 4 – Understanding risk I Probability scales and Language of probability</p> <p>Unit 5 – Algebraic Proficiency Simplify expressions, Factorise expressions, Change the subject of a formula</p> <p>Unit 6 – Exploring Fractions, Decimals, Percentages Fractions of amounts, Simplifying Fractions, Improper Fractions/Mixed Numbers</p>
Half term 3	<p>Unit 7 – Proportional Reasoning Ratio in context, Compound measures (Speed/Distance/Time)</p> <p>Unit 8 – Pattern Sniffing Linear sequences, Nth term, Sequences using ICT</p> <p>Unit 9 – Investigating Angles Angles on parallel lines, Angles in triangles proof</p>
Half term 4	<p>Unit 10 – Calculating Fractions, Decimals, Percentages Percentage Increase/Decrease</p> <p>Unit 11 – Solving Equations and Inequalities Order of operations (using algebra), Linear Equations</p> <p>Unit 12 – Calculating Space Circles, Area and Circumference, Prisms</p>
Half term 5	<p>Unit 13 – Algebraic Proficiency - Visualising Equation of straight line graphs, Plotting functions, Quadratic Graphs</p> <p>Unit 14 – Understanding Risk Listing outcomes (Two-way table, Venn diagram), Frequency Trees, Theoretical Probability</p>
Half term 6	<p>Unit 15– Presentation of Data Discrete/Continuous Data, Frequency Tables, Scatter Diagrams</p> <p>Unit 16 – Measuring Data Class/Group data, Investigating averages</p>
Homework expectations	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.
By the time you finish Year 8...	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.