

Maths	Dr Horne and Mr Jackson	Mrs Ferns and Mr Lee	
Week	Learning	Learning	Activities
Week beginning 8 th June	Review and Independent Learning	Review and Independent Learning	Assignment set by class teacher who will review and mark
Week beginning 15 th June	<p><u>Quadratics</u></p> <p>Students will factorise quadratic expressions in the form $ax^2 + bx + c$. They will set up and solve quadratic equations by factorising and completing the square. Students will solve equations that need rearranging and solve quadratic equations using the quadratic formula.</p>	<p><u>Equations</u></p> <p>Students will use function machines. They will solve equations with integer coefficients, in which the unknown appears on either side or on both sides of the equation.</p>	<p>Lesson/online lesson (with independent learning assignment)</p> <p>Learning loop (Hegarty Maths quiz linked to the content of the lesson)</p>
Week beginning 22 nd June	<p><u>Simultaneous Equations</u></p> <p>Students will find the exact solutions of two simultaneous equations in two unknowns. They will use elimination or substitution to solve simultaneous equations. They will solve both linear and non- linear simultaneous equations</p>	<p><u>Sequences</u></p> <p>Students will find a specific term using position–to-term or term-to-term rules. They will generate linear sequences of numbers and sequences derived from diagrams. They will find the nth term for a pattern sequence and of an arithmetic sequence. Students will continue a quadratic sequence and use the nth term to generate terms</p>	<p>Lesson/online lesson (with independent learning assignment)</p> <p>Learning loop (Hegarty Maths quiz linked to the content of the lesson)</p>

<p>Week beginning 29th June</p>	<p><u>3D Pythagoras and 3D trigonometry</u></p> <p>Students will understand, recall and use trigonometric relationships and Pythagoras’ Theorem in right angled triangles and use these to solve problems in 3D configurations</p>	<p><u>Prime Numbers</u></p> <p>Students will recognise and describe prime numbers. They will find the prime factor decomposition of positive integers and write as a product using index notation. Students will find the HCF/LCM using prime factors including finding HCF and LCM given the prime factorisation of two numbers.</p>	<p>Lesson/online lesson (with independent learning assignment)</p> <p>Learning loop (Hegarty Maths quiz linked to the content of the lesson)</p>
<p>Week beginning 6th July</p>	<p><u>Statistics</u></p> <p>Students will apply systematic listing strategies, including use of the product rule for counting. They will understand how to draw a tree diagram and use this to find probability and expected outcomes. They will calculate the probability of independent and dependent combined events.</p>	<p><u>Standard form</u></p> <p>Students will convert large and small numbers to and from standard form. They will multiply, divide, add and subtract in standard form. They will know how to interpret a calculator display using standard form and know how to enter numbers in standard form.</p>	<p>Lesson/online lesson (with independent learning assignment)</p> <p>Learning loop (Hegarty Maths quiz linked to the content of the lesson)</p>
<p>Week beginning 13th July</p>	<p><u>Statistics 2</u></p> <p>Students will estimate the size of a population using the capture-recapture method. They will draw and interpret cumulative frequency graphs and box plots to find median, quartiles, range and interquartile range and draw conclusions</p>	<p><u>Ratio</u></p> <p>Students will share a quantity in a given ratio, including three part ratios. They will apply ratio to real life problems, such as those involving conversion, comparison scaling.</p>	<p>Lesson/online lesson (with independent learning assignment)</p> <p>Learning loop (Hegarty Maths quiz linked to the content of the lesson)</p>

