| Year 8 | Curriculum Content Mathematics | Home Learning and Wider Study |
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| | Following the Edexcel scheme of work a topic will be taught for 4 weeks, tested and then 2 weeks of therapy will commence in order to ensure that all topics have been thoroughly learnt by all students.<br>Students will be offered catch up sessions after school as well.<br>Please note that this is an exemplar of what you may study at either foundation or higher level. | |
| **Autumn 1** | **Number properties and calculations** (index laws, powers of ten, prime factors, calculating and estimating.)<br>*Real life links; powers of 10 linked to distance of planets and size of microbes.)*<br>**Shapes and measures** (Volume, area, plans and elevations, surface area, Pythagoras)<br>*Real life link; architecture*<br><br>**Powers** (calculating with powers of ten, index laws and standard form) | May include;<br>Mathswatch<br>Corbett maths<br>Hegarty maths<br>A worksheet as decided by the class teacher<br>Please check my homework |
| **Autumn2** | **Statistics** (planning a survey and displaying the data in a variety of ways including pie charts and scatter graphs)<br>**Algebra brackets, formula, simplifying** (simplifying terms, expanding and factorising expressions, expanding polynomials, construct and solve equations)<br>**Decimals and calculations** (multiplying, dividing, addition and subtraction of decimals and use of a calculator) | |
| **Spring 1** | **Angles** (calculating missing angles in 2d shapes, measuring and drawing)<br>**Number properties** (square, cubes and roots, highest common factors and lowest common multiples, prime factorisation)<br>**Transformations (**enlarge, translate, rotate and reflect shapes on a Cartesian plane, draw shapes using 2D isometric paper)<br>**Constructions and loci** (using the appropriate mathematical equipment to construct angles and bisectors) | |
| **Spring 2** | **Sequences** (recognise the rule for a pattern, calculating the nth term and recognising the nth term of special sequences)<br>**Scale drawing** (use to scale to accurately draw 2d shapes, recognising that the scale is proportional)<br>Real life links; architecture, model building, maps<br>**Graphs** (Drawing straight line graphs) | |
| **Summer 1** | **Fractions, decimals and percentages** (applying all operations, recognise conversions, reverse percentages, percentage increase and converting recurring decimals to fractions)<br>**Probability** (write probabilities as fractions, recognise the difference between experimental and theoretical probabilities and conduct experiments recording the data, complete a frequency tree and tree | |

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| | diagrams)<br>*Real life links; probabilities in the real world, ability to display data and conduct experiments* | |
| **Summer 2** | **Therapy and enrichment** | |

**Additional subject specific guidance and resources:**

All content is linked to the Edexcel scheme of work, with assessment points every four weeks, followed by two weeks of therapy.