

| Mathematics | Autumn 1  | Autumn 2 | Spring 1  | Spring 2   | Summer 1   | Summer 2   |
|-------------|---|----------|---|--|--|--|
| Year 9      | Students will be exploring different aspects of number and algebra in either the higher or foundation scheme of work over the entire autumn term. These can range from exploring calculating methods to deepening their understand of quadratics for higher tier students   |          | Over both half terms, the first topic covered by higher and foundation exploring data, looking at scatter graphs, two-way tables, pie charts and graphs. Foundation students explore fractions and percentages and higher students also explore ratio. Foundation tier students start to progress further in algebra and look at inequalities, equations and sequences whereas higher students will explore a geometry topic and work with angles and trigonometry  |  | In the final term, foundation tier students will cover angles and shapes, averages and the range and finish with exploring perimeter, area and volume. The higher tier students explore different graphs and how to draw them and find equations of them and deepen their understanding of area and volume. They will also cover the different transformations of shapes and extending these to more complex transformations |  |
| Year 10     | Students will be exploring different aspects of number and algebra in either the higher or foundation scheme of work over the entire autumn term. In higher, the students follow on with exploring graphs, percentages, fractions and ratios. They finish with exploring angles and trigonometry. In foundation, students also cover different graphs and fractions and percentages but explore equations and inequalities in the final part of the term. |          | In this term, foundation tier students will cover angles and shapes, averages and the range and finish with exploring perimeter, area and volume. After this, they will start to perform different transformations and look at different graphs and explore finding the equation of these and how to draw them.<br><br>The higher tier students explore different graphs and how to draw them and find equations of them and deepen their understanding of area and volume. They will also cover the different transformations of shapes and extend these to more complex transformations. After this, students start to explore solving different equations and inequalities and then start to look further into the world of probability. |  | In the final term, foundation students cover ratio and proportion, right angled triangles, probability, multiplicative reasoning and finish with exploring constructions, bearings and loci. For higher tier students, they cover some alternative topics of similarity and congruence, more trigonometry, further statistics and finish with equations and graphs.  |  |
| Year 11     | In the final term, foundation students cover fractions, indices and standard form, congruence, similarity and vectors and finish with more algebra. Higher  |          | Personalised scheme of work based on mock exam analysis.  | Personalised scheme of work based on mock exam analysis. | Personalised scheme of work based on mock exam analysis.   | Personalised scheme of work based on mock exam analysis. |

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|         | tier students finish the scheme with vectors and geometric proof and proportion and graphs |  |  |  |  |  |
| Year 12 |  |  |  |  |  |  |
| Year 13 |  |  |  |  |  |  |