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| Programme of Study  Subject:  Year 12 A Level Maths: | | |
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|  | **Autumn 1** | |
| **Unit 1: Analysing and Displaying Data: Mode, median and range, Displaying data, Grouping data**  **Averages and comparing data, Line Graphs and more bar charts**  **Unit 2: Number Skills: Mental Maths, Addition and Subtraction, Multiplication, Division,**  **Money and Time, Negative Numbers, Factors, multiples and primes**  **Square Numbers** | |  |
|  | **Autumn 2** | |
| **Unit 3: Expressions, functions and formulae: Functions, Simplifying expressions, Writing expressions**  **Substituting into formula, Writing formulae**  **Unit 4: Decimals and Measures: Decimals and rounding, Length, mass and capacity, Scales and**  **Measures, Working with decimals mentally, Working with decimals, Perimeter**  **Area, More units of measure** | |  |
|  | **Spring 1** | |
| **Unit 5: Fractions and Percentages: Comparing Fractions, Simplifying Fractions, Working with Fractions**  **Fractions and decimals, Understanding percentage, Percentages of amounts**  **Unit 6: Probability: The language of probability, Calculating Probability, More probability calculations**  **Experimental probability, Expected outcomes** | |  |
|  | **Spring 2** | |
| **Unit 7: Ratio and Proportion: Direct proportion, Writing ratio, Using Ratios, proportions and**  **fractions, Proportions and percentages**  **Unit 8: Lines and Angles: Measuring and Drawing angles, Lines, angles and triangles, Drawing triangles**  **accurately** | |  |
|  | **Summer 1** | |
| **Unit 8: Lines and Angles, Calculating angles, Angles in a Triangle, Quadrilaterals**  **Junior Maths Challenge *(for selected students/students who wish to participate)***  **Unit 9: Sequences and Graphs, Sequences, Pattern sequences, Coordinates and midpoints,**  **,Extending sequences, Straight-line graphs**  **Position-to-term rules** | |  |
|  | **Summer 2** | |
| **Unit 10: Transformations, Congruency and enlargements, Symmetry, Reflection, Rotation,**  **Translations and combined transformations**  **Revision** | |  |