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| Programme of StudySubject: 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** |  |