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| Programme of StudySubject: MathsYear 8: |
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|  |  **Autumn 1** |
|  **Unit 3: Statistics, graphs and charts: Pie Charts, Using tables, Stem and leaf diagrams, Comparing data,**  **Scatter graphs, Misleading graphs** **Unit 4: Expressions and equations: Algebraic powers, Expressions and brackets, Factorising**  **expressions, One-step equations, Two-step equations, The balancing method** |  |
|  |  **Autumn 2** |
|  **Unit 5: Real-life graphs: Conversion Graphs, Distance-time graphs, Line Graphs,**  **Real-life graphs, Curved graphs** **Unit 6: Decimals and ratio: Ordering decimals and rounding, Place value calculations,**  **Calculations with decimals, Ratio and proportion with decimals** |  |
|  |  **Spring 1** |
|  **Unit 7: Lines and angles: Quadrilaterals, Alternate angles and proof, Angles in parallel lines, Exterior and**  **interior angles, Solving geometric problems** |  |
|  |  **Spring 2** |
| **Unit 8: Calculating with fractions: Ordering fractions, Adding and subtracting fractions, Multiplying fractions, Dividing fractions, Calculating mixed numbers****Unit 9: Straight-line graphs: Direct proportion on graphs, Gradients, Equations of straight lines** |  |
|  |  **Summer 1** |
| **Unit 10: Percentages, decimals and fractions: Fractions and decimals, Equivalent proportions, Writing percentages, Percentages of amounts****Junior Maths Challenge *(for selected students/students who wish to participate)*****Unit 11: Indices and Standard Form: Indices, Calculations and Estimates, Standard Form** |  |
|  |  **Summer 2** |
|  **Unit 12: Expressions and Formulae: Solving Equations, Substituting into expressions, Writing and using formulae, Using and rearranging formulae, Index laws and brackets, Expanding double brackets** |  |