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| Programme of Study  Subject: Maths  Year 8: | | |
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|  | **Autumn 1** | |
| **Unit 1: Number: Calculations, Divisibility and division, Calculating with negative integers, Powers, roots and brackets, Multiples and factors**  **Unit 2: Area and Volume: Area of a triangle, Area of a parallelogram and trapezium, Volume of cubes and cuboids, 2D representations of 3D solids, Surface area of cubes and cuboids, Measures** | |  |
|  | **Autumn 2** | |
| **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** | |  |
|  | **Spring 1** | |
| **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 2** | |
| **Unit 7: Lines and angles: Quadrilaterals, Alternate angles and proof, Angles in parallel lines, Exterior and**  **interior angles, Solving geometric problems**  **Unit 8: Calculating with fractions: Ordering fractions, Adding and subtracting fractions** | |  |
|  | **Summer 1** | |
| **Unit 8: Multiplying fractions, Dividing fractions, Calculating mixed numbers**  **Unit 9: Straight-line graphs: Direct proportion on graphs, Gradients, Equations of straight lines**  **Junior Maths Challenge *(for selected students/students who wish to participate)*** | |  |
|  | **Summer 2** | |
| **Unit 10: Percentages, decimals and fractions: Fractions and decimals, Equivalent proportions, Writing percentages, Percentages of amounts** | |  |