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| **Number** | **Geometry and Measure** | **Algebra** |
| **Statistics** | **Probability** | **Ratio and Proportion** |

**CURRICULUM OVERVIEW 2024 – 2025 YEAR 9**

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| **YR 9** | **Autumn 1** | **Autumn 2** | **Spring 1** |
| **Content** | **Unit 1: Number Calculations**  **Unit 2: Sequences and Equations** | **Unit 3: Statistics**  **Unit 4: Fractions, Decimals and Percentages** | **Unit 5: Geometry 2D and 3D**  **Unit 6: Algebraic and real life graphs** |
| **Key new knowledge** | **Number calculations**   * Solve Problems using addition & subtraction * Add and Subtrasct Decimals * Multiplication including decimal numbers * Multiplicative reasoning * Divide by decimals numbers * Multiply and divide with negative numbers * Know sq numbers upto 162 * Find positive and negative square roots of square numbers * Work with cubes and cube roots. * Work out calculations involving sq &brackets. * Prime factor decomposition * Index notation and positive power laws * Work out LCM and HCF for prime factor dec * Using scientific calculators and estimate ans   **Sequences and Equations**   * Write and simplify expressions * Generate terms of a sequence using algebra * Solve sequence problems * Work out Nth term of linear sequences * Solve complex equations   **Unit Test 1 and 2** | **Statistics**   * Plan and collect data * Interpret frequency tables * Find Range and Mean * Use median, mean and range to compare data sets. * Two way tables * Group discrete and continuous data. * Construct pie charts * Interpret and construct scatter graphs. * STEM Graph and charts * Report on survey results.   **Fractions, Decimals & Percentages**   * Convert between fractions, decimals& % * Complate fractions, decimals& % * Write fractions as decimals * Write recurring decimals as fractions. * Add and subtract fractions * Add and subtract mixed numbers * Use strategies for multiplying fractions * Divide fractions * Calculator working out percentages * Compare proportions * Percentage increase and decrease     **Unit Test 3 and 4** | **Geometry 2D and 3D**   * Alternate and corresponding angles. * Work with angles in polygons * Use scales in maps and plans * Draw scale diagrams * Use ruler &compass to bisect line segments * Use ruler &compass to bisect an angle * Use 2D representations of 3D solids * Volume of 3Dshapes made from cuboids * Use Pythagoras Therom to calculate missing lengths   **Algebraic and real life graphs** |

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| **Year 7** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Content** | **Unit 7: Multiplicative reasoning**  **Consolidation** | **Unit 8: Algebraic and geometric formulae**  **Unit 9: Probability** | **Unit 10: Polygons and Transformations**  **Consolidation** |
| **Key new knowledge** |  |  |  |