**Year 7 Enhanced Revision List**

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| **Algebra** | write and simplify expressions and formulae |
| substitute into an expression |
| expand a single bracket |
| continue and explain sequences |
| find and use the nth term of an arithmetic sequence |
| plot horizontal and vertical lines |
| plot linear graphs |
| identify and interpret the y intercept and gradient of a linear graph |
| Real life graphs |
| **Data** | calculate the mode, median and mean, range for small data sets |
| calculate the mean of frequency table |
| use words to describe probability |
| plot probability on a number line |
| list all the outcomes of two events in a sample space |
| express probability as a fraction |
| apply fact that probabilities of an exhaustive set of outcomes sum to one |
| construct dual bar chart/compound bar charts for comparing data |
| construct and interpret pie charts |
| construct and interpret stem and leaf diagrams |
| **Number** | calculate with directed numbers + - x ÷ |
| Find HCF and LCM |
| use order of operations for calculations BIDMAS |
| simplify ratios to lowest terms |
| solve simple direct proportion problems |
| share quantities in a given ratio |
| convert percentages, decimals and fractions |
| fractions of amounts |
| calculate with fractions + - x ÷ |
| use mileage charts |
| **Shape** | calculate Perimeter of shapes |
| calculate Area: rectangle, parallelogram, triangle, trapezium |
| calculate angle properties: point, line, triangle, vertically opposite |
| calculate unknown angles on parallel lines |
| know the names and properties of quadrilaterals and polygons |
| calculate unknown angles in quadrilaterals |
| know names and properties of polygons |
| Plot bearings |
| produce isometric drawing of 3D solids |
| identify and draw nets of 3D solids |
| draw plans and elevations of 3D solids |
| calculate the volume of cuboids and triangular prisms |
| calculate the surface area of cuboids and triangular prisms |