**Year 8 Revision List – Foundation Paper**

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| **Algebra** | write and simplify expressions |
| substitute into an expression/formula |
| write and use a simple word formula |
| continue and explain number sequences |
| algebraic perimeters |
| plot coordinates |
| plot horizontal and vertical lines |
| plot linear graphs from tables of results |
| **Data** | calculate mode, median, mean and range |
| average problems |
| use words to describe probability |
| list all the outcomes of two events |
| express probability as a fraction |
| complete a probability spinner |
| label probabilities on a number scale |
| tally data |
| draw a bar chart |
| interpret pie charts |
| **Number** | order, add, subtract negative numbers |
| identify types of numbers: odd, even, prime, factor, multiple, squares |
| find factors, multiples, HCF and LCM |
| use the order of operation in calculations BIDMAS |
| simplify ratios into lowest terms |
| solve simple direct proportion problems and recipe problems |
| share in a ratio |
| convert decimals, fractions and percentages |
| cancel fractions and calculate fractions of amounts |
| add/subtract fractions with the same denominators |
| problem solving with timetables |
| interpret travel graphs and conversion graphs |
| **Shape** | converting units of length (mm, cm, m , km) |
| Calculate perimeter of shapes |
| Calculate Area: rectangle, parallelogram, triangle |
| identify types of angles, estimate and measure angles |
| understand the properties of triangles |
| calculate angles: point, line, triangle, vertically opposite |
| know names of polygons |
| name 3D solids, understand the terms vertices/edges/faces |
| identify nets of solids |
| calculate volume of a cuboid |