**Year 7 Higher Revision List**

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| **Algebra** | write and simplify expressions |
| substitute positive values into an expression/formula |
| expand a single bracket |
| continue and explain sequences |
| find and use nth term of an arithmetic sequence |
| identify and plot horizontal/vertical lines |
| plot linear graphs from tables of results and from function machines |
| interpret real life graphs: distance/time |
| draw and use a conversion graph |
| **Data** | calculate mode, median and mean for small data sets |
| mean and mode of a frequency table |
| use words to describe probability |
| plot probability on a number line |
| list all the outcomes of two events - include sample space |
| express probability as a fraction |
| calculate the probability of an event not happening |
| tally data in groups |
| draw and interpret tally charts, bar charts and dual bar charts |
| construct and interpret simple pie charts |
|  **Number** | Order and calculate with negative numbers |
| identify types of numbers: odd, even, prime, factor, multiple, squares |
| find HCF and LCM |
| write a number as a product of its prime factors |
| use the order of operation in calculations BIDMAS  |
| identify and simplify ratios |
| solve simple direct proportion problems |
| sharing in a ratio |
| convert decimals, fractions and percentages |
| calculate fractions of amounts |
| add/subtract fractions with different denominators |
| **Shape** | converting units of length (mm, cm, m, km) |
| identify 2D shapes |
| Calculate perimeter of shapes |
| Calculate Area: rectangle, parallelogram, triangle, compound |
| identify types of angles |
| estimate and measure angles |
| calculate angles: point, line, triangle, parallel lines, vertically opposite |
| problem solving with timetables |
| find time intervals |
| use of mileage charts |
| calculate volume of solids |
| calculate surface area of cuboid |