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| **Year 8 Revision List - CORE PAPER (all sets)** |
| Know and understand rules for multiplying and dividing algebraic terms |
| Expand a single bracket |
| Factorise into a single bracket using the HCF  |
| Understand the difference between an expression, formula and identity |
| Understand and correctly use the symbols > , < and = |
| Form and use expressions, formulae and identities and simplify expressions, including those with brackets |
| Substitute into expressions |
| Form and solve equations, including brackets |
| Solve one and two-step inequalities |
| Solve inequalities involving brackets |
| Generate and continue sequences from a linear nth term, use the nth term formula to find the value of a particular term |
| Generate and continue sequences using more complex rules, eg involving brackets, squared terms |
| Understand the link between graphs and solving one or two-step equations |
| Understand and use the equation for a straight line |
| Understand and use the rules for multiplying and dividing terms with indices, both numerically and algebraically |
| Understand fraction, decimal and percentage equivalence and calculate percentage of amounts |
| Percentage increase and decrease |
| Express one number as a percentage of the other  |
| Convert between numbers in ordinary and standard form  |
| Convert between measures and units, choose the most appropriate unit |
| Estimation using rounding to decimal places and significant figures |
| Order of operations |
| Understand and use ratio notation |
| Solve proportional problems involving the ratio m:n |
| Compare ratios and related fractions |
| Calculate simple probabilities |

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| **HIGHER paper revision list** (This is **AS WELL** as the core list)**Groups 8X1, 8X2, 8Y1, 8Y2** |
| Identify equivalent expressions |
| Expand double brackets |
| Calculate using indices, including fraction and zero powers |
| Calculate the circumference of a circle |
| Calculate reverse percentage change |
| Find the gradient of a line from its equation or from co-ordinates |
| Use the equation of a line to tell whether a graph is linear |
| Write an expression for the nth term of a sequence |

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| **FOUNDATION paper revision list** (This is **AS WELL** as the core list)**Groups 8X5 and 8Y5** |
| Plot co-ordinates in all 4 quadrants |
| Calculate the cost of some items and the amount of change received |
| Identify equivalent expressions |
| Work out the perimeter of a rectangle |
| Simplify a ratio |
| Multiply fractions |
| Interpret grouped frequency tables |