| | | Year 8 | | |
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| | | **Term 2** | | |
| **Learning Objective** | | **Expressions and equations** | **Real life graphs** | **Decimals and ratio** |
| **Learning Outcome** | | **Assessment 1** - timed written test (1 hour) | **Assessment 2** - timed written test (1 hour) | **Assessment 3** - times written test (1 hour) |
| **Descriptor** | **Exceptional** | *Expand and simplify more than one single bracket with positive and negative terms *Know the difference between an equation and an identity *Simplify expressions involving multiplication of terms with powers *Simplify expressions involving powers inside and outside the brackets *Simplify algebraic fractions with one term *Expand and simplify more than one single bracket with square terms | *Know the shape of a graph that shows a directly proportional relationship *Interpret a range of financial graphs *Calculate speed from a distance time graph *Interpret graphs that are curved *Identify misleading graphs | *Multiply triple digit decimals *Divide decimals using equivalent division *Apply decimal and ratio skills to worded problem solving questions *Express a ratio as a unit ratio |
| | **Good** | *Simplify algebraic multiplications by writing powers with different terms and coefficients *Expand single brackets with negative terms at the front *Expand and simplify more than one single bracket with positive terms *Factorise expressions into single brackets *Solve equations which require simplifying first *Solve two-step equations | *Match a range of real life graphs to a description *Use line graphs to make decisions and comparisons in real life contexts *Recognise when values are in direct proportion | *Multiply a double digit decimal by a single or double digit decimal using knowledge of place value *Apply decimal multiplication to calculating the area of rectangles, parallelograms and triangles *Share a quantity into a given ratio |
| | **Developing** | *Simplify expressions by collecting like terms with positive and negative coefficients *Simplify algebraic multiplications by writing powers with one term *Find algebraic outputs of one-step functions *Identify expressions and equations *Solve one-step equations *Expand simgle brackets with positive terms at the front | *Draw a distance-time graph *Use a conversion graph to convert measures where the scale requires working out *Draw a line graph from a table of data | *Multiply an integer by a decimal using knowledge of place value *Round to a given decimal place *Order decimals *Simplify a ratio to its lowest terms |
| | **Foundation** | *Simplify expressions by collecting like terms with positive coefficients *Know that 3 x a can be written as 3a *Know that c ÷ 5 can be written as a fraction *Find numerical inputs and outputs of one-step functions *Follow BIDMAS with numerical calculations involving brackets | *Convert metric units of measure using known facts *Use a conversion graph to convert measures where the scale is in whole units *Read times and distances from a distance time graph *Read values from line graphs | *Add and subtract decimals using the column method *Multiply and divide by 10, 100 and 1000 using your knowledge of place value *Round decimals to the nearest whole number |