

Strands Covered	Building Block	Y6 Key Objectives
Number and Place Value	- read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit - count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 - add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) - add and subtract numbers mentally with increasingly large numbers - use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy - solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	<i>Understand place value addition and subtraction of numbers with 3 decimal places.</i> <i>Multiply and divide by 10, 100 and 1000 (answers from 3 decimal places to 7-digit whole numbers).</i> <i>Round decimals to the nearest whole, tenth and hundredth.</i> <i>Use written addition to add numbers with 3 decimal places in the context of measures (litres, km, kg); Use rounding to estimate totals</i> <i>Use written addition to add numbers with 3 decimal places in the context of measures (litres, km, kg); Use rounding to estimate totals and round answers to give degree of accuracy.</i> <i>Use place value and table facts to multiply and divide numbers with up to 2 decimal places, e.g. 0.4×6, $3.5 \div 7$, 5×0.03, $0.15 \div 3$.</i> <i>Use partitioning to mentally multiply numbers with 1 and 2 decimal places e.g. 4×3.6 and 4×0.36.</i>
Ratio and Proportion Y6 only	- solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts - solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison - solve problems involving similar shapes where the scale factor is known or can be found - solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	<i>Solve problems involving similar shapes where the scale factor is known; Find areas of triangles, rectangles and parallelograms.</i> <i>Solve problems involving similar shapes where the scale factor can be found.</i> <i>Solve problems involving rate.</i> <i>Use mental strategies (factors and multiples) to multiply by 5, 20, 6, 4 and 8; Solve scaling problems.</i> <i>Use mental strategies to divide by 5, 20, 6, 4 and 8; Solve scaling problems.</i>
Measurement	convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre;	<i>Convert between grams and kilograms, millilitres and litres.</i> <i>Convert between metres and kilometres;</i>

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	gram and kilogram; litre and millilitre) - understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints - measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres - calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area	<i>Know approximate conversion between miles and km;</i> <i>Know regularly-used imperial units and approximate metric equivalents.</i> <i>Calculate time intervals using the 24-hour clock and add lengths of time.</i> - convert between miles and kilometres - recognise that shapes with the same areas can have different perimeters and vice versa - recognise when it is possible to use formulae for area and volume of shapes - calculate the area of parallelograms and triangles - calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³] <i>Find the area of triangles.</i> <i>Find the area of parallelograms.</i> <i>Revise finding areas and perimeters of rectilinear shapes.</i> <i>Find volumes of cubes and cuboids.</i>
Data	- solve comparison, sum and difference problems using information presented in a line graph - complete, read and interpret information in tables, including timetables - interpret and construct pie charts and line graphs and use these to solve problems - calculate and interpret the mean as an average.	<i>Convert between grams and kilograms, millilitres and litres.</i> <i>Draw a line graph and read intermediate points.</i> <i>Draw a conversion graph of imperial to metric units and use it to read equivalent measures.</i> <i>Read timetables using the 24-hour clock; Calculate time intervals (at least 3 hours).</i> <i>Interpret pie charts.</i> <i>Construct pie charts.</i> <i>Calculate and interpret the mean as an average.</i> <i>Calculate and interpret the mean as an average.</i>

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Ratio and Proportion	• solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts • solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison	<i>Describe ratios between unequal quantities, e.g. paint; Solve ratio problems, e.g. in the context of recipes.</i> <i>Solve problems involving unequal quantities.</i> <i>Find percentages, link to proportion.</i>
Revision	Revision	<i>Revision Menu A and B according to needs of class and following assessment in March (Y6 SAT)</i>