| MATHS AT CORVEDALE PRIMARY SCHOOL YEAR 5 OBJECTIVES |
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| Number, Place Value, Approximation and Estimation/Rounding |
| I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. <br> I can read, write, order and compare numbers to at least $1,000,000$. <br> I know the value of each digit in numbers up to $1,000,000$. <br> I can read Roman numerals to $1,000(\mathrm{M})$ and recognise years written in Roman numerals. I can round any number up to $1,000,000$ to the nearest $10,100,1000,10000$ and 100000 . I can interpret negative numbers in context. <br> I can count forwards and backwards with positive and negative whole numbers. <br> I can solve number problems and practical problems with the above. |
| Calculations |
| I can add and subtract numbers (with more than 4 digits) mentally and including using written methods. <br> I can use rounding to check answers to calculations. <br> I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. <br> I can identify multiples and factors, including finding all factor pairs or a number and common factor pairs of two numbers. <br> I can use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. <br> I can establish whether a number up to 100 is prime and the prime numbers up to 19 . I can recognise and use square numbers and cube numbers, and use $\mathrm{cm}^{2}$ and $\mathrm{cm}^{3}$. <br> I can multiply and divide numbers mentally drawing on known facts. <br> I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. <br> I can multiply numbers up to 4 digits by a I or 2 -digit number using a formal written method, including long multiplication for 2-digit numbers. <br> I can divide numbers up to 4 digits by a I or 2-digit number using the formal written method of short division and interpret remainders appropriately for the context. <br> I can solve problems involving multiplication and division using knowledge of factors and multiples, squares and cubes. <br> I can solve problems involving $+,-, x, \div$ and $=$. <br> I can solve problems involving multiplication and division including scaling by simple fractions and problems. |
| Fractions, Decimals and Percentages |
| I can recognise mixed numbers and improper fractions and convert from one form to the other. <br> I can identify, name and write equivalent fractions of a given fraction. <br> I can compare and order fractions whose denominators are multiples of the same number. I can add and subtract fractions with the same denominator and denominators that are multiples of the same number. <br> I can multiply proper fractions and mixed numbers by whole numbers. <br> I can read and write decimal numbers as fractions. <br> I can recognise and can use thousandths and relate them to tenths, hundredths and decimal equivalents. |

I can round decimals with 2 decimal places to the nearest whole number and I decimal place.
I can read, write, order and compare numbers with up to 3 decimal places and solve problems.
I can recognise the percent symbol (\%) and know this is 'parts per hundred'.
I can write percentages as a fraction with denominator hundred, and as a decimal.
I can solve problems which require knowing percentage/decimal equivalents of $1 / 2,1 / 4,1 / 5$,
$2 / 5,4 / 5$ \& those fractions with a denominator or a multiple of 10 or 25.

## Measurement

I can solve problems involving converting between units of time.
I can convert between different units of metric measure.
I can understand and use approximate equivalences between metric units and common imperial units.
I can measure and calculate the perimeter of composite rectilinear shapes (several straightlined shapes which make one) in cm and m .
I can calculate and compare the area of rectangles (inc. squares), and including using standard units ( $\mathrm{cm}^{2}$ and $\mathrm{cm}^{3}$ ) to estimate the area of irregular shapes.
I can estimate volume and capacity.
I can use all four operations to solve problems.
Geometry - Properties of Shape
I can use the properties of rectangles to deduce related facts and find missing lengths and angles.
I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
I can identify 3D shapes, including cubes and other cuboids, from 2D representations.
I know angles are measured in degrees.
I can estimate and compare acute, obtuse and reflex angles.
I can identify angles at a point and one whole turn.
I can identify angles at a point on a straight line and $1 / 2$ a turn.
I can identify other multiples of $90^{\circ}$.
I can draw given angles and measure them in degrees.
Geometry - Position and Direction
I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

## Statistics

I can complete, read and interpret information in tables, including timetables.
I can solve comparison, sum and difference problems using information presented in a line graph.

