

| So I can... | Read, write, order and compare numbers to at least 1000000 and determine the value of each digit <br> Count forwards or backwards in steps of powers of 10 for any given number up to 1000000 <br> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers. <br> Round any number up to 1 000000 to the nearest 10, 100, 1000, 10000 and100 000 <br> Solve number problems and practical | Add and subtract whole numbers with more than 4 digits, including using formal written methods <br> Add and subtract numbers mentally with increasingly large numbers <br> Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy <br> Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. | Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers <br> Use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers <br> Establish whether a number up to 100 is prime and recall prime numbers up to 19 <br> Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers <br> Multiply and divide numbers | Compare and order fractions whose denominators are all multiples of the same number <br> Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths <br> Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number[for example, $2 / 5+4 / 5=6 / 5=$ 11/5] <br> Add and subtract fractions with the same denominator and denominators that are multiples of the same number <br> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams | Convert <br> between <br> different units <br> of metric <br> measure (for <br> example, <br> kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) <br> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <br> Calculate and compare the area of rectangles using standard units, square centimetres (cm2) and square metres (m2) and | 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. | Identify 3-D <br> shapes, including cubes and other cuboids, from 2D representations <br> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> Draw given angles, and measure them in degrees ( ${ }^{\circ}$ ) <br> Identify angles <br> at a point and one whole turn <br> Use the properties of rectangles to deduce related facts and find missing lengths and angles So that I can: distinguish between regular and | Solve <br> comparison, sum and difference problems using information presented in a line graph So that I can: complete, read and interpret information in tables, including timetables. |
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| Vocabulary I will use... | greater than or equal to $\geq$ less than or equal to $\leq$ <br> ascending order, descending order <br> round to the nearest 10000 <br> and 100000 <br> $\approx$ is <br> approximately equal to, approximation <br> square/d <br> number cube/d <br> number to the <br> power of... <br> prime number <br> composite <br> number <br> one squared, two squared etc million <br> term-to-term rule <br> Roman numerals to 1000 (M) | Ones boundary tenths boundary | divisibility common factor prime factor divisor factorise | common fraction, simple fraction, vulgar fraction proper fraction improper fraction mixed number, mixed fraction reduced to cancel ninth twelfth thousandth percentage per cent \% | discount <br> currency <br> gallon <br> square millimetre $\left(\mathrm{mm}^{2}\right)$ volume in $\mathrm{cm}^{3}$ <br> imperial unit inch <br> pound (lb) pint <br> arrive <br> depart | rotation symmetry protractor | congruent octahedron <br> axis of symmetry reflective symmetry degrees <br> angle/s on a straight line, diagonal angle/s at a point reflex angle | database line, graph bar line chart timetable mode range maximum/minimum value outcome <br> x-axis <br> $y$-axis |
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