Maths

Year 5

Age Related Expectations

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| Statement |  |
| Count forwards / backwards in steps of powers of 10 for any given number up to 1,000,000. |  |
| Read, write, order and compare numbers to at least 1,000,000. |  |
| Determine the value of each digit in numbers up to 1,000,000. |  |
| Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals. |  |
| Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10000 and 100000. |  |
| Interpret -ve numbers in context, count forwards/backwards with +ve and -ve whole numbers, including through 0. |  |
| Add and subtract numbers mentally with increasingly large numbers. |  |
| Add and subtract whole numbers with more than 4 digits |  |
| Solve addition and subtraction multi-step problems in contexts |  |
| Identify multiples and factors |  |
| Establish whether a number up to 100 is prime and recall prime numbers up to 19. |  |
| Recognise and use square numbers and cube numbers. |  |
| Multiply and divide numbers mentally drawing on known facts. |  |
| Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. |  |
| Multiply numbers up to 4 digits by a 1-digit or 2-digit number |  |
| Divide numbers up to 4 digits by a 1-digit number |  |
| Solve problems involving +, -, X & ÷ |  |
| Solve problems involving converting between units of time. |  |
| Convert between different units of metric measure. |  |
| Understand & use approximate equivalences between metric units & common imperial units |  |
| Measure and calculate the perimeter of composite rectilinear shapes in cm and m. |  |
| Calculate and compare the area of rectangles |  |
| Estimate volume and capacity. |  |
| Use all 4 operations to solve problems involving money using decimal notation |  |
| Recognise mixed numbers and improper fractions and convert from one form to the other. |  |
| Write mathematical statements >1 as a mixed number. |  |
| Identify, name and write equivalent fractions of a given fraction |  |
| Compare and order fractions whose denominators are multiples of the same number. |  |
| Add and subtract fractions with same denominator &denominators that are multiples of same number. |  |
| Multiply proper fractions and mixed numbers by whole numbers. |  |
| Read and write decimal numbers as fractions. |  |
| Recognise and use thousandths and relate to 1/10, 1/100 & decimal equivalents. |  |
| Round decimals with 2 dp to the nearest whole number and 1 decimal place. |  |
| Read, write, order and compare numbers with up to 3 decimal places |  |
| Solve problems involving numbers up to 3 decimal places. |  |
| Write percentages as a fraction and as a decimal |  |
| Solve problems which require knowing percentage and decimal equivalents |  |
| Use properties of rectangles to deduce related facts & find missing lengths and angles. |  |
| Distinguish between regular and irregular polygons |  |
| Identify 3D shapes, including cubes and other cuboids, from 2D representations |  |
| Estimate and compare acute, obtuse and reflex angles. |  |
| Identify angles at a point and one whole turn. |  |
| Identify angles at a point on a straight line and ½ a turn. |  |
| Draw given angles and measure them in degrees. |  |
| Identify, describe, and represent the position of a shape following a reflection or translation |  |
| Complete, read and interpret information in tables, including timetables |  |
| Solve comparison, sum and difference problems using information presented in a line graph. |  |