

Year 5 Stage 1	Year 5 Stage 2	Year 5 Stage 3 MET
I can read and write numbers to at least 1,000,000 (7-digits) and determine the value of each digit	I can order numbers to at least 1,000,000	I can compare numbers to at least 1,000,000
I can count forwards in steps of powers of 10 <i>e.g. 10, 100, 1000, 10,000</i> from zero	I can count forwards in steps of powers of 10 <i>e.g. 10, 100, 1000, 10,000</i> from any given number	I can count backwards in steps of powers of 10 <i>e.g. 10, 100, 1000, 10,000</i> from any given number
I understand negative numbers in context <i>e.g. temperature</i>	I can count forwards from negative whole numbers, through zero, to positive whole numbers <i>e.g4, -3, -2, -1, 0, 1, 2, 3, 4, 5,</i>	I can count backwards from positive whole numbers, through zero, to negative whole numbers <i>e.g. 3, 2, 1, 0, -1, -2, -3, -4</i>
I can round any number to 1,000,000 to the nearest 10 , 100	I can round any number to 1,000,000 to the nearest 1000 , 10,000	I can round any number to 1,000,000 to the nearest 100,000
<i>I can find the rule to describe number sequences</i> <i>e.g.</i> 3, $3\frac{1}{2}$, 4, $4\frac{1}{2}$ <i>is add</i> $\frac{1}{2}$ or 1.5, 1.3, 1.1, 0.9 <i>is subtract 0.2</i>	I can solve project-based problems that involve the objectives above	I can solve problems that involve the objectives above.
I can solve number problems that involve the objectives above	I can read Roman numerals up to 1,000 (M)	I can read years written in Roman numerals <i>e.g.</i> $MMXV = 2015$
I use formal written methods to add whole numbers with more than 4 digits $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	I can use formal written methods to subtract whole numbers with more than 4 digits with 2 or more exchanges	
I can add numbers mentally with increasingly large numbers using place value to help $e.g. 12,462 + 2300 = 14,762$		I can subtract numbers mentally with increasingly large numbers <i>e.g.</i> 12,462 – 2,300 = 10,162
I can solve addition multi-step problems in contexts, deciding which operations and methods to use and why	I can solve subtraction multi-step problems in contexts, deciding which operations and methods to use and why	I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
I can multiply ThHTO x O using short multiplication The the the term of term	I can multiply TO x TO using long mulitplication x	I can multiply HTO x TO using long multiplication Th H T 2 6 2 7 4 7 4 7 2 6 2 7 4 7 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
	I can multiply numbers mentally, using known facts <i>e.g. 32 x 7</i>	I can divide numbers mentally, using known facts <i>e.g.</i> $210 \div 60$
I can divide ThHTO ÷ O using short division <i>e.g. 2352 ÷ 6</i>	I can divide ThHTO ÷ O using short division and interpret remainders appropriately for the context <i>e.g. How many standard</i> <i>egg-boxes will you need to pack 1000 eggs?</i>	I can divide numbers ThHTO ÷ O and express remainders as a fraction or decimal e.g. 98 ÷ 4 = 24 r2 = $24\frac{2}{4}$ = 24.5
I can multiply and divide whole numbers by 10, 100, 1,000 using a <i>Place Value</i> <i>Slider</i> to help	I can multiply and divide whole numbers by 10, 100, 1000 <i>e.g.</i> $134,500 \div 100 = 1345$	I can multiply and divide decimal numbers by 10, 100, 1000 <i>e.g.</i> $2764.5 \div 10 = 276.45$
I can identify multiples of 1-digit numbers <i>e.g. 49 is a mulliple of</i>	I can find factor pairs of a number <i>e.g. 1 & 12, 2 & 6, 3 & 4 for 12</i>	I can identify common factors of two numbers <i>e.g. 6 is a factor of 18 and 60</i>
I use the terms factor and multiple when describing composite (non-prime) numbers <i>e.g.</i> "10 is a multiple of 2, 5 and 10. Its factors are 1, 2, 5 and 10".	I can explain prime numbers using the terms factor and multiple <i>e.g. 13 is a prime number because it has only two factors. It's a multiple of only 1 and 13.</i>	I can explain and calculate prime factors for numbers to 30 <i>e.g. The factors of 18 are 1, 2, 3, 6, 9, 18. So the prime factors are 2 and 3 because 2 x 3 x 3 = 18</i>
I can represent square numbers using resources <i>e.g. counters</i>	I can recognise square numbers and the notation for squared numbers $(^{2})$	I can build and recognise $\mbox{cube}\ \mbox{numbers}$ and the notation for cubed numbers $(^3)$
I can work out if a number up to 19 is prime	I can recall prime numbers up to 19 <i>e.g. 2, 3, 5, 7, 11, 13, 17, 19</i>	I can establish whether a number up to 100 is prime
I can use the equals sign to show equivalence <i>e.g.</i> $13 + 24 = 12 + 25$	I can explain how the equal sign shows equivalence	I can solve missing number problems $e.g. 33 = 5 x$?
I can solve multiplication problems involving brackets <i>e.g.</i> 5(4+7)	I can construct equivalence statements <i>e.g.</i> $4 \times 35 = 2 \times 2 \times 35$	I can construct equivalence statements with squared numbers e.g. $3 \times 270 = 3 \times 3 \times 9 \times 10 = 9^2 \times 10$
I can choose which operation to use to solve problems involving addition, subtraction, multiplication and division.	I can solve problems involving multiplication including using factors and multiples, squares and cubes	I can solve problems involving division including using factors and multiples, squares and cubes
I can solve problems using a combination of addition, subtraction, multiplication and division.	I can solve problems involving multiplication and division including scaling by simple fractions and problems involving simple rates <i>e.g.</i> Adapt a recipe for ¼ of the amount	I can solve problems involving addition, subtraction, multiplication and division and a combination of these, understanding the meaning of the equals sign



I can compare fractions whose denominators are all multiples of the same number	I can order fractions whose denominators are all multiples of the same number	
I can identify and write equivalent fractions of a given fraction represented visually including tenths and hundreds <i>e.g.</i> $\frac{4}{10} = \frac{40}{100}$	I can recognise mixed numbers and improper fractions e.g. $3\frac{1}{2}$ OF $\frac{15}{4}$	I can write mathematical statements using mixed and improper fractions e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$
	and convert from one to the other	
I can add and subtract fractions with the same denominator	I can add fractions with denominators that are multiples of the same number <i>e.g.</i> $\frac{1}{4} + \frac{1}{8}$	I can subtract fractions with denominators that are multiples of the same number e.g. $\frac{4}{6} - \frac{1}{3}$
I can read and write decimal numbers as fractions e.g. $0.71 = \frac{71}{100}$	I can multiply proper fractions by whole numbers supported by different representations <i>e.g.</i> $\frac{1}{3} \times 6$	I can multiply mixed numbers by whole numbers supported by different representations e.g. $2\frac{2}{3} \times 4$
I can recognise and use thousandths and relate them to tenths	I can recognise and use thousandths and relate them to hundredths	I can recognise and use thousandths and relate them to decimal equivalents
I can read and write numbers with up to 3 decimal places	I can order numbers with up to 3 decimal places	I can compare numbers with up to 3 decimal places
I can round decimals with 2 decimal places to the nearest whole number	I can round decimals with 2 decimal places to 1 decimal place (1dp)	I can solve problems involving number up to 3 decimal places
I recognise the per cent symbol (%) and understand that percent relates to `number of parts per 100'	I can write percentages as a fraction with a denominator 100 e.g. $\frac{63}{100}$ = 63%	I can write percentages as a decimal <i>e.g. 38% = 0.38</i>
I can solve problems which require knowing decimal equivalents of η_2 , η_4 , η_{5r} η_{5r} η_5	I can solve problems which require knowing percentage equivalents of ½, ¼, ¼, ½, ½, 4_5	I can solve problems which require knowing fractions with a denominator of a multiple of 10 or 25
I can convert between different units of length <i>e.g. mm & cm, cm</i> & <i>m, m & km</i>	I can convert between different units of mass <i>e.g. grams & kilogram</i>	I can convert between different units of volume <i>e.g. millilitres</i> and litres
I can convert between centimetres and inches using the approximate equivalence of 2.54cm = 1 inch	I can convert between kilograms and pounds using the approximate equivalence of 1kilogram = 2.2 pounds (mass NOT money)	I can convert between litres and pints using the approximate equivalence of 1 litre = 1.76 pints
I can measure the perimeter of a shape made of rectangles in centimetres and metres	I can calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm ²) and square metres (m ²)	I can estimate the area of irregular shapes in square centimetres (cm ²) or square metres (m ²)
I can calculate the perimeter of a shape made of rectangles when there are missing measurements	I can estimate the capacity of a container in millilitres and litres	I can estimate the volume of a cuboid made from 1cm ³ cubes
I can solve problems involving converting between units of time e.g. minutes to hours, days to weeks, weeks to months,	I can use all four operations to solve problems involving length and money with decimal notation, including scaling	I can use all four operations to solve problems involving mass and volume with decimal notation, including scaling
I can identify cubes and other cuboids from 2-D representations	I can identify prisms and pyramids from 2-D representations	I can draw a line to the nearest millimetre
I can know angles are measured in degrees	I can estimate and compare acute and obtuse angles	I can estimate and compare reflex angles
I can measure angles in degrees (°) using a protractor	I can draw given angles using a protractor	I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles
I can identify angles at a point and 1 whole turn (total 360°)	I can identify angles at a point on a straight line and half a turn (total 180°)	I know a quarter turn is 90° and a three-quarter turn is 270°
I can use the properties of rectangles to find missing lengths	I can use the properties of other quadrilaterals to work out missing lengths <i>e.g. rhombus has 4 equal edges</i>	I can use the properties of quadrilaterals to work out missing angles <i>e.g. trapezium's interior angles add up to 360</i> °
I can reflect a shape in a horizontal or vertical axis and describe its transformation knowing that its shape hasn't changed	I can translate a shape in the first quadrant and describe its transformation knowing that its shape hasn't changed	I can identify if a shape has been reflected or translated
I can complete, read and interpret information in tables, including timetables	I can solve problems by comparing data in a line graph	I can solve comparison, sum and difference problems using data in a line graph
n to ten multiples of the number		

*up to ten multiples of the number