Year 6 End of Year Expectations		
What I should understand: Mastery indicators	What I should know: Essential knowledge	
<ul> <li>Multiply and divide numbers with up to three decimal places by 10, 100, and 1000</li> <li>Use long division to divide numbers up to four digits by a two-digit number</li> <li>Use simple formulae expressed in words</li> <li>Generate and describe linear number sequences</li> <li>Use simple ratio to compare quantities</li> <li>Write a fraction in its lowest terms by cancelling common factors</li> <li>Add and subtract fractions and mixed numbers with different denominators</li> <li>Multiply pairs of fractions in simple cases</li> <li>Find percentages of quantities</li> <li>Solve missing angle problems involving triangles, quadrilaterals, angles at a point and angles on a straight line</li> <li>Calculate the volume of cubes and cuboids</li> <li>Use coordinates in all four quadrants</li> <li>Calculate and interpret the mean as an average of a set of discrete data</li> </ul>	<ul> <li>Know percentage and decimal equivalents for fractions with a denominator of 2, 3, 4, 5, 8 and 10</li> <li>Know the rough equivalence between miles and kilometres</li> <li>Know that vertically opposite angles are equal</li> <li>Know that the area of a triangle = base × height ÷ 2</li> <li>Know that the area of a parallelogram = base × height</li> <li>Know that volume is measured in cubes</li> <li>Know the names of parts of a circle</li> <li>Know that the diameter of a circle is twice the radius</li> <li>Know the conventions for a 2D coordinate grid</li> <li>Know that mean = sum of data ÷ number of pieces of data</li> </ul>	
How deeply do I understand? Depth Measures		

I can do this in the session with an adult
 I can do this in the session with friends
 I can do this in the session on my own

5. I can choose when to use this in the session appropriately6. I can choose when to use this in other subjects appropriately

4. I can explain why/how to use it

Year 1 End of Year Expectations		
What I should understand:	What I should know:	
Mastery indicators	Essential knowledge	
<ul> <li>Read and write numbers from 1 to 20 in numerals and in words</li> <li>Count to and across 100, forwards and backwards from any given number</li> <li>Count from zero in multiples of 2, 5 and 10</li> <li>Add and subtract a two-digit number and a one-digit number up to 20</li> <li>Solve one-step multiplication and division problems by using concrete objects and pictorial representations</li> </ul>	<ul> <li>Know the symbols =, +, -</li> <li>Know doubles and halves up to 10</li> <li>Know number bonds to 10</li> <li>Know the value of different denominations of coins and notes</li> <li>Know the days of the week</li> <li>Know the meaning of 'weeks', 'months' and 'years'</li> </ul>	
<ul> <li>Write addition and subtraction statements using the symbols '+', '-' and '='</li> <li>Recognise and name the fractions <sup>1</sup>/<sub>2</sub> and <sup>1</sup>/<sub>4</sub></li> </ul>		
Tell the time to the hour, and half past the hour, using an analogue clock		
Sequence events in chronological order		
Use the comparative vocabulary of length, mass, capacity and time		
Recognise and name rectangles (including squares), circles and triangles		
<ul> <li>Recognise and name cuboids (including cubes), pyramids and spheres</li> </ul>		
Describe position and movement		
How deeply do Lunderstand? D	onth Moscures	

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Year 2 End of Year Expectations		
What I should understand:	What I should know:	
Mastery indicators	Essential knowledge	
• Read and write numbers up to 100 in numerals and in	Know the place value headings of ones and tens	
words	Know that zero is a placeholder	
• Compare and order whole numbers up to 100	• Know the symbols =, <, >, ×, ÷	
• Count from zero in multiples of 2, 3 and 5	Know the meaning of odd and even numbers	
• Count in tens from any number, forwards and	Know doubles and halves up to 20	
backwards	Know addition and subtraction facts to 20	
<ul> <li>Add and subtract numbers including a two-digit number and ones, a two-digit number and tens, two two-digit numbers, and three one-digit numbers</li> </ul>	Know multiplication facts for the 2, 5 and 10 multiplication tables	
<ul> <li>Derive addition and subtraction facts to 100 using known facts to 20</li> </ul>	<ul> <li>Know division facts related to the 2, 5 and 10 multiplication tables</li> </ul>	

• Recognise and name the fractions  $^{1}/_{3}$ ,  $^{1}/_{4}$ ,  $^{2}/_{4}$ ,  $^{3}/_{4}$ 

• Write multiplication and division statements using

 Understand that addition and multiplication of two numbers can be done in any order (commutative)

correct symbols

- Tell the time to the nearest five minutes using an analogue clock, including 'quarter past' and 'quarter to'.
- Use a ruler to measure lengths in millimetres and centimetres
- Identify and describe 2D and 3D shapes

and subtraction and division cannot

- Use mathematical vocabulary to describe position, direction and movement
- Know the names and number of sides of 2D shapes

• Know the standard units for length (m, cm),

mass (kg, g), temperature (°C) and capacity

Know the symbols for pounds (£) and pence (p)

• Know that 60 minutes = 1 hour

• Know that 24 hours = 1 day

(litres/ml)

- Known the meaning of 'edges', 'faces' and 'vertices'
- Know the names and number of faces of 3D shapes

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Year 3 End of Year Expectations		
What I should understand:	What I should know:	
Mastery indicators	Essential knowledge	
<ul> <li>Read and write numbers up to 1000 in numerals and in words</li> </ul>	<ul> <li>Know the place value headings of tenths, ones, tens and hundreds</li> </ul>	
<ul> <li>Compare and order whole numbers up to 1000</li> </ul>	• Know multiplication facts for the 3, 4 and 8	
• Count from zero in multiples of 4, 8, 50 and 100	multiplication tables	
<ul> <li>Add and subtract numbers mentally including a three-digit number and ones, tens and hundreds</li> </ul>	<ul> <li>Know division facts related to the 3, 4 and 8 multiplication tables</li> </ul>	
• Use columnar addition and subtraction with numbers	• Know that a right angle is ¼ of a turn	
up to three digits	Know the number of days in each month	
<ul> <li>Use known facts to multiply and divide mentally</li> </ul>	• Know the number days in a year and a leap year	
within the 2, 3, 4, 8 and 10 multiplication tables	• Know that 60 seconds = 1 minute	
Multiply a two-digit number by a one-digit number	Know the Roman numerals from I to XII	
• Understand fractions as proportions	Know the vocabulary of time including o'clock,	
Understand fractions as numbers	a.m., p.m., morning afternoon, noon and	
<ul> <li>Count forward and backwards in tenths</li> </ul>	midnight	
Tell the time using analogue and digital 12-hour clocks	Know the meaning of 'perimeter'	
<ul> <li>Measure length (mm, cm, m), mass (g, kg) and capacity (ml, l)</li> </ul>		
Measure perimeters of shapes		
How deeply do I understand? Depth Measures		

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Year 4 End of Year Expectations		
What I should understand:  Mastery indicators	What I should know: Essential knowledge	
Round any number to the nearest 10, 100, 1000 and round a number with one decimal place to the nearest whole	Know the place value headings of ones, tens, hundreds and thousands	
<ul><li>number</li><li>Count backwards through zero</li></ul>	<ul> <li>Know the Roman numerals I, V, X, L, C</li> <li>Know multiplication facts up to 12 × 12</li> </ul>	
<ul> <li>Use columnar addition and subtraction with numbers up to four digits</li> </ul>	<ul> <li>Know division facts related to tables up to 12 × 12</li> </ul>	
<ul> <li>Multiply two- and three-digit numbers by a one-digit number</li> </ul>	<ul> <li>Know decimals equivalents of <sup>1</sup>/<sub>2</sub>, <sup>1</sup>/<sub>4</sub>, <sup>3</sup>/<sub>4</sub></li> <li>Know adjacent time facts involving</li> </ul>	
<ul> <li>Use known and derived facts to multiply and divide mentally</li> <li>Write any number of tenths or hundredths as a decimal</li> </ul>	years, months, weeks, days, hours, minutes and seconds	
Find families of common equivalent fractions	• Know 12- and 24-hour clock conversions	
<ul> <li>Add and subtract fractions with the same denominator</li> <li>Find areas of rectilinear shapes by counting squares</li> </ul>	Know the names and connected properties of triangles and quadrilaterals	
<ul> <li>Use a line of symmetry to complete a symmetric shape or pattern</li> </ul>	Know the definitions of acute and obtuse angles	
Identify lines of symmetry in 2D shapes	Know that area is measured in squares	
Use coordinates in the first quadrant	Know that perimeter is a measure of	
Interpret and construct bar charts and time graphs	length	

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Year 5 End of Year Expectations		
What I should understand:  Mastery indicators	What I should know: Essential knowledge	
Identify multiples and factors of a number	Know the place value headings up to	
Count forwards and backwards through zero	millions	
Round to one decimal place	Recall primes to 19	
Use columnar addition and subtraction with numbers of any	Know the first 12 square numbers	
size	• Know the Roman numerals I, V, X, L, C,	
Multiply a three- or four-digit number by a two-digit number	D, M	
using long multiplication	Know the % symbol	
<ul> <li>Divide numbers up to four-digits by a single-digit number using short division and interpret the remainder</li> </ul>	• Know percentage and decimal equivalents for $^1/_2$ , $^1/_4$ , $^1/_5$ , $^2/_5$ , $^4/_5$	
Add and subtract fractions with denominators that are multiples of the same number	Know rough conversions between metric and Imperial units	
Write decimals as fractions	Know that angles are measured in	
Understand that per cent relates to number of parts per	degrees	
hundred	Know angles in one whole turn total	
Convert between adjacent metric units of measure for	360°	
length, capacity and mass	<ul> <li>Know angles in half a turn total 180°</li> </ul>	
Measure and draw angles	• Know that area of a rectangle = length ×	
Calculate the area of rectangles	width	
Distinguish between regular and irregular polygons		
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