

Maths Assessment Checklist

Year 6

Name _____

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

		Working towards the expected standard						
A	Number and calculation	I can read, write, order and compare numbers up to 1 000 000 and determine the value of each digit						
B		I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero						
C		I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000						
D		I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)						
E		I can add and subtract numbers mentally with increasingly large numbers						
F		I can 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						
G		I can multiply and divide numbers mentally drawing upon known facts						
H		I can divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context						
I		I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000						
		Working at expected standard						
1	Place Value	I can read, write, order and compare numbers up to 10 000 000 and determine the value of each digit						
2		I can round any whole number to a required degree of accuracy						
3		I can use negative numbers in context, and calculate intervals across zero						
4		I can solve number and practical problems that involve all of the above						
5		Can calculate mentally, using efficient strategies such as manipulating expressions using commutative and distributive properties to simplify the calculation (e.g. $53 - 82 + 47 = 53 + 47 - 82 = 100 - 82 = 18$; $20 \times 7 \times 5 = 20 \times 5 \times 7 = 100 \times 7 = 700$; $53 \div 7 + 3 \div 7 = (53 + 3) \div 7 = 56 \div 7 = 8$).						
6	Number - Four operations	I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication						
7		I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context						
8		I can divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context						
9		I can perform mental calculations, including with mixed operations and large numbers						
10		I can identify common factors, common multiples and prime numbers						
11		I can use my knowledge of the order of operations to carry out calculations involving the four operations						
12		I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why						
13		I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy						
14		I can multiply one-digit numbers with up to two decimal places by whole numbers						
15		I can use written division methods in cases where the answer has up to two decimal places						
16	I can solve problems which require answers to be rounded to specified degrees of accuracy							
17	Fractions Decimals and Percentages	I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination						
18		I can compare and order fractions, including fractions > 1						
19		I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions						
20		I can multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $4 \frac{1}{2} \times 2 \frac{1}{3} = 8 \frac{1}{3}$]						
21		I can divide proper fractions by whole numbers [for example, $3 \frac{1}{2} \div 2 = 6 \frac{1}{4}$]						
22		I can associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$]						
23	I can recall and use equivalences between simple fractions, decimals and percentages, including							

		in different contexts.							
24	Measurement	I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate							
25		I can convert between miles and kilometres							
26		I can recognise that shapes with the same areas can have different perimeters and vice versa							
27		I can recognise when it is possible to use formulae for area and volume of shapes							
28		I can calculate the area of parallelograms and triangles							
29		I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units [for example, mm ³ and km ³].							
30	Shape and Space	I can draw 2-D shapes using given dimensions and angles							
31		I can recognise, describe and build simple 3-D shapes, including making nets							
32		I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons							
33		I can illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius							
34		I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles							
35		I can describe positions on the full coordinate grid (all four quadrants)							
36		I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes							
37	Stats	I can interpret and construct pie charts and line graphs and use these to solve problems							
38		I can calculate and interpret the mean as an average							
39	Ratio / Proportion	I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts							
40		I can solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison							
41		I can solve problems involving similar shapes where the scale factor is known or can be found							
42		I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.							
43	Algebra	I can use simple formulae e.g I can substitute values into a simple formula to solve problems (e.g. perimeter of a rectangle or area of a triangle).							
44		I can generate and describe linear number sequences							
45		I can express missing number problems algebraically							
46		I can find pairs of numbers that satisfy an equation with two unknowns and enumerate possibilities of combinations of two variables							