

Year 6 Number, Calculation and Algebra

1	I can read, write, order and compare numbers to 1,000,000
2	I understand the value of each digit in whole and decimal numbers.
3	I can count forwards and backwards in steps of 10 and powers of 10 for any number up to 1 000 000
4	I can understand negative numbers in context and count forwards and backwards in positive and negative numbers across the zero
5	I can round any number to the required degree of accuracy
6	I can solve problems by ordering and comparing numbers and using place value
7	I can add and subtract 5 or more digit numbers using formal column methods.
8	I can add, subtract, multiply and divide numbers mentally, including mixed operations and large numbers
9	I can use rounding to check my answers and use the context of the problem
10	I can solve multi-step problems in context, choose the correct operation and method
11	I can identify multiples and factors and find factor pairs and common factors.
12	I recognise and use common factors and multiples and prime factors
13	I can multiply 4 digit numbers by 2 digit numbers using long multiplication
14	I can divide 4 digit numbers by 2 digit numbers using long division
15	I understand what to do with a remainder in context eg record as whole number, fraction or round up or down
16	I can recognise and use square numbers using the correct notation
17	I can recognise and use cubed 18numbers and use the correct notation.
18	I can solve problems involving mixed operations
19	I can compare and order fractions by finding the lowest common denominator.
20	I can calculate equivalent fractions of a given fractions
21	I can recognise mixed numbers and improper fractions and turn them into the other form.
22	I can add and subtract fractions with different denominators.
23	I can multiply simple pairs of proper fractions, writing the answer in its simplest form eg $\frac{1}{4} \times \frac{1}{2} = 1/8$
24	I can divide proper fractions by whole numbers eg $1/3 / \text{by } 2 = 1/6$
25	I know can recognise fractions as division.
26	I can calculate fraction and decimal fraction equivalents eg $0.375 = 3/8$
27	I can read, write and compare numbers with up to 3 decimal places
28	I can \times and \div whole numbers and decimals by 10, 100 and 1000 giving an answer to 3DP

29	I can round decimals with 3 dp to the nearest whole number, 10^{th} and 100^{th} .
30	I can multiply number with up to 2 DP by whole numbers.
31	I can solve division problems where the answer has up to 2 DP (decimal remainders)
32	I can find the percentage of an amount - such as finding 15 per cent of 360.
33	I can recall and use fraction, decimal and percentage equivalents to solve problems in a range of contexts.
34	I can solve problems about relative sizes (ratio).
35	I can solve similar shape problems using scale factors
36	I can solve problems about unequal sharing - such as 'I need four eggs and for every egg I need three spoonfuls of flour. How much flour do I need?'
37	I can create a sequence of numbers that follow a rule.
38	I know how to use simple formulae such as $n - 10 = 2$.
39	I can use a letter (such as n or x) to show a missing number - such as $10 - x = 5$.
40	I can find pairs of numbers that satisfy an equation with two unknowns.
41	I can list possible answers to missing numbers such as listing the possible answers of a and b in $a + 6 = b - 10$.

Year 6 Measure and Geometry and Statistics

42	I can convert between units of measure eg km and m, cm and m, kg to g and l to m, using values with up to 3DP.
43	I can solve problems where I have to convert between units of measure, using values with up to 3DP.
44	I can convert between different measures of time.
45	I can convert between miles and kilometres.
46	I can recognise when a shape can have the same area but a different perimeter and vice versa.
47	I can calculate the area of parallelograms and triangles
48	I can use formula to calculate the area and volume of a shape.
49	I can calculate, estimate and compare the volume of cubes and cuboids using cm^3 , m^3 and extending to km^3 and mm^3 .
50	I can draw 2D shapes given dimensions and angles
51	I can recognise, describe and build 3D shapes and their nets
52	I can compare 2D and 3D shapes based on their properties and sizes
53	I can calculate unknown angles in triangles, quadrilaterals and regular polygons.
54	I can name the parts of a circle - radius, circumference and diameter.
55	I know the radius of a circle is half the diameter.
56	I can draw given angles and measure them using degrees.
57	I can work with angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
58	I can identify multiples of 90 and use these to solve angles problems.
59	I can use the four quadrants in a coordinate grid
60	I can draw, translate, rotate and reflect shapes using coordinates or reflect a shape on a four quadrant grid.

61	I can read and interpret tables including timetables
62	I can use and construct pie charts and line graphs and use these to solve problems.
63	I can calculate the mean as an average.