

<b>TARGETS</b>			
<b>Number, place value, approximation and estimation/rounding</b>			
1. I can read, write, order and compare numbers up to 10,000,000.			
2. I can determine the value of each digit in numbers up to 10,000,000.			
3. I can round any whole number to a required degree of accuracy.			
4. I can use negative numbers in context, and calculate intervals across zero.			
5. I can solve number problems and practical problems with the above.			
<b>Calculations</b>			
6. I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.			
7. I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.			
8. I can identify common factors, common multiples and prime numbers.			
9. I can perform mental calculations, including with mixed operations and large numbers.			
10. I can multiply multi-digit numbers up to 4 digits by a 2 digit whole number using the formal written method of long multiplication.			
11. I can divide numbers up to 4 digits by a 2 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.			
12. I can divide numbers up to 4 digits by a 2 digit number using the formal written method of short division where appropriate.			
13. I can solve problems involving addition, subtraction, multiplication and division.			
14. I can use my knowledge of the order of operations to carry out calculations involving the four operations.			

<b>Fractions, decimals and percentages</b>			
15. I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.			
16. I can compare and order fractions, including fractions $>1$ .			
17. I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.			
18. I can multiply simple pairs of proper fractions, writing the answer in the simplest form.			
19. I can divide proper fractions by whole numbers.			
20. I can associate a fraction with division to calculate decimal fractions equivalents for a simple fraction.			
21. I can identify the value of each digit to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places.			
22. I can multiply 1-digit numbers with up to 2 decimal places by whole numbers.			
23. I can use written division methods in cases where the answer has up to 2 decimal places.			
24. I can solve problems which require answers to be rounded to specified degrees of accuracy.			

25. I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts			
<b>Ratio and proportion</b>			
26. I can solve problems involving the relative sizes of two quantities, where missing values can be found using integer multiplication and division facts.			
<b>27. I can solve problems involving the calculation of percentages and the use of percentage comparisons.</b>			
28. can solve problems involving similar shapes where the scale factor is known or can be found.			
29. I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.			
<b>Algebra</b>			
30. I can express missing number problems algebraically.			
31. I can use simple formulae.			
32. I can generate and describe linear number sequences.			
33. I can find pairs of numbers that satisfy an equation with two unknowns.			
34. I can enumerate possibilities of combinations of two variables.			

<b>Measurement</b>			
35. I can use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation of up to 3 decimal places.			
36. I can convert between miles and kilometres.			
37. I recognise that shapes with the same areas can have different perimeters and vice versa.			
38. I can calculate the area of parallelograms and triangles.			
39. I recognise when it is possible to use the formulae for the area of shapes.			
40. I can calculate, estimate and compare volume of cubes and cuboids, using standard units.			
41. I recognise when it is possible to use the formulae for the volume of shapes.			
42. I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate.			
<b>Geometry - properties of shapes</b>			
43. I can compare and classify geometric shapes based on the properties and sizes.			
44. I can describe simple 3D shapes.			
45. I can draw 2D shapes given dimensions and angles.			
46. I recognise and build simple 3D shapes, including making nets.			
47. I can find unknown angles in any triangles, quadrilaterals and regular polygons.			
48. I recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.			
49. I can illustrate and name parts of circles, including radius, diameter and			

circumference.			
50. I know the diameter is twice the radius.			
<b>Geometry - position and direction</b>			
51. I can draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes.			
52. I can describe positions on the full co-ordinate grid (all four quadrants).			
<b>Statistics</b>			
53. I can interpret and construct pie charts and line graphs and use these to solve problems			
54. I can calculate and interpret the mean as an average.			

## Exceeding

1. I can compare, order and convert between fractions, decimals and percentages, for example, in contexts related to science, history or geography learning			
2. I can move beyond squared and cubed numbers to calculate problems such as $X \times 10^n$ where n is positive.			
3. I can use =, $\neq$ , <, >, $\leq$ , $\geq$ correctly.			
4. I can multiply all integers, (using efficient written methods) including mixed numbers and negative numbers.			
5. I can recognise an arithmetic progression and find the <i>n</i> th term .			
6. I can use a formula for measuring the area of a shape, such as a rectangle and triangle to work out the area of an irregular shape in the school environment			
7. I can use the four operations with mass, length, time, money and other measures, including the use of decimal quantities.			
8. I can create a scaled model of an historical or geographical structure showing an acceptable degree of accuracy using known measurements.			
9. I can calculate the costs and time involved of a visit to a destination in another part of the world relating to on-going learning in history or geography.			
10. I can collect my own data on a personal project and present information in formats of my choosing, using charts, graphs and tables, and answer specific questions related to my research.			