<u>Mathematics Programme of Study – Year 6</u>

	1a. I can read, write, order and compare numbers to at least 10,000,000.		27. I can convert between miles and kilometres.
	1b. I can determine the value of each digit in a number up to 10,000,000.		28. I can recognise that shapes with the same areas can have different perimeters and vice versa.
alue	2. I can round any whole number to a given degree of accuracy.		I can calculate the area of parallelograms and triangles.
ce Va	3a. I can use negative numbers in context.		29. I recognise when it is necessary to use the formulae for area and volume of shapes.
d Pla	3b. I can calculate intervals across '0' when using negative numbers.		30. I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cm ³ and m ³ , and extending to mm ³ and km ³ .
er and	4. I can solve number problems and practical problems.		31. I can draw 2-D shapes using given dimensions and angles.
lumbe	5. I can multiply up to 4 digits by a 2-digit whole number using the formal written method of long multiplication.		32. I can recognise, describe and build simple 3-D shapes, including making nets.
2	6a. I can divide up to 4 digits by a 2-digit whole number using the formal written method of long division.		33a. I can compare and classify geometric shapes based on their properties and sizes.
	6b. I can interpret remainders as whole number remainders, fractions or by rounding,		33b. I can find unknown angles in any triangles, quadrilaterals and regular polygons.
and	7. I can divide up to 4 digits by a 2-digit whole number using the formal written method of short division.		34a. I can illustrate and name parts of circles, including radius, diameter and circumference.
ation a	8. I can calculate mentally, including with mixed operations and large numbers.		34b. I know that the diameter of a circle is twice the radius.
Multiplication on	9. I can identify common factors, common multiples and prime numbers.		35. I can find unknown angles where they meet at a point, are on a straight line and are vertically opposite.
on, Mu ision	10. I can use knowledge of the order of operations to carry out calculations involving the four operations.		36. I can describe positions on the full co-ordinate grid (all four quadrants).
Subtracti	11. I can solve addition and subtraction multi-step problems in different contexts.		37. I can draw and translate simple shapes and reflect them in the axes.
Addition, Sub	12. I can solve problems using any operation +, x, -, ÷.		38. I can solve ratio and proportion problems involving the relative sizes of two quantities, where missing values can be found using multiplication and division facts.
Add	I can use estimation to check answers to calculations and determine an appropriate degree of accuracy.		39a. I can solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360.
	14, I can simplify fractions and use common multiples to express fractions in the same denomination.	Ġ	39b. I can use percentages for comparison.
	15. I can compare and order fractions, including fractions >1.		40. I can solve problems involving similar shapes where the scale factor is known or can be found.
es	16. I can add and subtract fractions with different denominators and mixed numbers, using the idea of equivalent fractions.		41. I can solve ratio and proportion problems involving unequal sharing and grouping using knowledge of fractions and multiples.
entag	17. I can multiply simple pairs of proper fractions, writing the answer in the simplest form.		42. I can use simple formulae.
Perce	18. I can divide proper fractions by whole numbers.		43. I can generate and describe linear number sequences.
Fractions, Decimals and Percentages	I can associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.		44. I can express missing number problems algebraically. 45. I can find pairs of numbers that satisfy number sentences involving two
	20a I can identify the value of each digit in numbers given to three decimal places.		45. I can find pairs of numbers that satisfy number sentences involving two unknowns.
	20b. I can x and ÷.numbers by 10, 100 and 1000 where the answers are up to 3 decimal places.		46. I can enumerate possibilities of combinations of two variables.
	21. I can x1-digit numbers with up to 2 decimal places by whole numbers.		I can interpret pie charts.
	22. I can use written division methods in cases where the answer has up to 2 decimal places.		I can construct pie charts.
	23. I can solve problems which require answers to be rounded to specified degrees of accuracy.		I can interpret line graphs.
	24. I can recall, use and calculate equivalences between simple fractions, decimals and percentages.		
	25. I can solve problems involving the calculation and conversion of units of measure, using decimal notation to 3 decimal places where appropriate.		I can calculate and interpret the mean as an average.
	26. I use, read, write and convert between standard units of measure of length, mass, volume and time.		I can interpret pie charts and line graphs to solve problems