

Year 6 Maths Progression

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn						Number: Place Value; Number: Addition, Subtraction, Multiplication and Division; Number: Fractions
Spring						Number: Decimals; Number: Percentages; Number: Algebra; Measurement: Converting Units; Measurement: Perimeter, Area and Volume; Number: Ratio
Summer						Geometry: Properties of Shapes; Problem Solving; Statistics; Investigation
						Geometry: Position and Direction; Consolidation

I can enumerate possibilities of combinations of 2 variables.

I can find pairs of numbers that satisfy an equation with 2 unknowns.

I can express missing number problems algebraically.

I can use simple formulae and can generate and describe linear number sequences.

I can solve problems involving similar shapes where the scale factor is known.

I can solve problems involving the calculation of percentages.

I can solve number and practical problems involving all of the below.

I can use negative numbers in context and calculate intervals across zero.

I can round any whole number to a required degree of accuracy.

I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.

Place Value, Ratio, Proportion and Algebra

I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

I can use knowledge of the order of operations to carry out calculations involving the four operations.

I can perform mental calculations, including with mixed operations and large numbers.

Addition and Subtraction

I can use knowledge of the order of operations to carry out calculations involving the 4 operations.

I can use the formal method of short division.

I can interpret remainders as whole number remainders, fractions or by rounding.

I can multiply and divide multi-digit numbers up to 4-digits by a 2-digit whole number.

I can use estimation to check answers to calculations and determine an appropriate degree of accuracy.

I can identify common factors, common multiples and prime numbers.

Multiplication and Division

I can recall and use equivalences between simple fractions, decimals and percentages.

I can associate a fraction with division and calculate decimal fraction equivalents.

I can multiply and divide numbers by 10, 100 and 1000 and multiply 1-digit numbers with up to 2 decimal places by whole numbers.

I can identify the value of each digit in numbers given to 3 decimal places.

I can divide proper fractions by whole numbers.

I can multiply simple pairs of proper fractions, writing the answer in the simplest form.

I can compare, order, add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.

I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.

Fractions and Decimals

I can calculate, estimate and compare volume of cubes and cuboids.

I can calculate the area of parallelograms and triangles.

I can recognise when it is possible to use formulae for area and volume of shapes.

I can recognise that shapes with the same areas can have different perimeters and vice versa.

I can use, read, write and convert between standard units, converting measurements of time.

I can convert between miles and kilometres.

I can use, read, write and convert between standard units, converting different types of measurements from a smaller unit to a larger one and vice versa.

I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 2 decimal places.

Measurement

I can calculate and interpret the mean as an average.

I can interpret and construct pie charts and line graphs and use these to solve problems.

Statistics

I can describe positions on the full coordinate grid and draw and translate simple shapes.

I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles.

I can find unknown angles in any triangles, quadrilaterals and regular polygons.

I can recognise, describe and build simple 3-D shapes, including making nets.

I can illustrate and name parts of circles.

I can compare and classify geometric shapes.

I can draw 2-d shapes using given dimensions and angles.

Geometry