



My Maths Learning Journey

Identify possibilities of combinations of two variables.

Find pairs of numbers that satisfy an equation with two unknowns.

Express missing number problems algebraically.

Create and describe linear number sequences.

Use simple formulae.

Solve number and practical problems.

Use negative numbers in context and calculate intervals across zero.

Round any whole number.

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

Number, place value and algebra

Solve addition and subtraction multi-step problems involving the four operations.

Identify common factors, common multiples and prime numbers.

Use the knowledge of the order of operations to carry out calculations. BODMAS

Use estimation to check answers to calculations.

Perform mental calculations in all operations and including large numbers.

Interpret remainders as whole number remainders, fractions, or by rounding.

I am learning to divide numbers up to 4 digits by a 2-digit number.

Multiply numbers up to 4 digits by a 2 digit whole number.

+, -, x and ÷

Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Solve problems involving similar shapes where the scale factor is known or can be found.

Calculate percentages.

Solve problems involving the relative sizes of two quantities where missing values can be found by using multiplication and

Ratio and Proportion

Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) cubic metres (m³), and other units (mm³ and km³).

Calculate the area of parallelograms and triangles.

Recognise when it is possible to use formulae for area and volume of shapes.

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

Convert between miles and kilometres.

Solve problems involving the conversion of units of measure, including numbers up to three decimal places.

Read, write and convert between standard units.

Measurements

Use written methods to multiply and divide numbers up to 2 decimal places by whole

Identify the value of each digit in numbers to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.

Link a fraction with division and calculate decimal fraction equivalents.

Divide proper fractions by whole numbers.

+ and - fractions with different denominators and mixed numbers, using the concept of

Multiply simple pairs of proper fractions, writing the answer in its simplest form.

Compare and order fractions, including fractions > 1.

Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

Fractions and decimals

Draw and translate shapes on the coordinate plane, and reflect them.

Describe positions on the full coordinate grid.

Recognise angles where they meet at a point, on a straight line, vertically opposite, and find missing angles

Illustrate and name parts of circles: radius, diameter and circumference.

Find unknown angles in triangles, quadrilaterals, and regular polygons.

Compare and classify geometric shapes based on their properties and

Recognise, describe and build simple 3-D shapes, including making nets.

Draw 2-D shapes using given dimensions and angles.

Geometry

Calculate and interpret the mean as an average.

Construct line graphs.

Interpret line graphs.

I am learning to construct pie charts.

Interpret pie charts.

Statistics