

My Maths Learning Journey

Read Roman numerals to 1000 (M) and recognise Roman years.

Solve number problems and practical problems.

Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000

Use negative numbers in context; count forwards and backwards with positive and negative whole numbers

Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000

Know what each digit represents in numbers to 1 000

Read, write, order and compare numbers to at least 1 000 000.

Number and place value

Use addition and subtraction to solve multi-step problems.

Use rounding to check answers to calculations.

Subtract mentally using increasingly large numbers.

Add mentally using increasingly large numbers.

Subtract whole numbers with more than 4 digits.

I am learning to add whole numbers with more than 4 digits.

Addition and subtraction

Solve problems involving \times and \div including simple fractions and problems involving simple rates.

Recognise and use square numbers (2) and cube numbers (3).

Solve problems involving \times and \div including using factors, multiples, squares and cubes.

\times and \div whole numbers and those involving decimals by 10, 100 and 1000.

Multiply and divide numbers mentally.

Multiply and divide numbers up to 4 digits by a one- or two-digit number.

Know whether a number up to 100 is prime and recall prime numbers up to 19.

Know and use the vocab of prime numbers, prime factors and composite (non-prime) numbers.

Identify multiples and factors, including finding all factor pairs.

Multiplication and division

Use all four operations to solve problems involving measure, decimal notation (to 3d.p) and scaling.

Estimate volume and capacity.

Estimate the area of irregular shapes.

Calculate and compare the area of rectangles (including squares)

Measure and calculate the perimeter of compound shapes in centimetres and metres.

Understand and use equivalences between metric units and common imperial units such as inches, pounds

Convert between different units of metric measure.

Measurements

Understand what % means and write as a fraction.

Read, write, order, compare and solve problems with numbers up to 3 decimal places.

Round numbers with 2 decimal places to the nearest whole number and to 1 decimal place.

Recognise and use 1000ths and relate them to 10ths, 100ths and decimal equivalents.

Read and write decimal numbers as fractions.

Multiply proper fractions and mixed numbers by whole numbers.

+ and - fractions with the same denominator and denominators that are multiples of the same number.

Recognise mixed numbers and improper fractions and convert from one form to the other.

Identify, name and write equivalent fractions.

Compare and order fractions whose denominators are all multiples of the same number.

Fractions and decimals

Identify, describe and represent the position of a shape following a reflection or translation.

Understand the difference between regular and irregular polygons.

Use the properties of rectangles to find related facts and find missing lengths and angles.

Identify multiples of 90°

Identify angles at a point on a straight line and $\frac{1}{2}$ a turn.

Identify angles at a point and one whole turn.

Draw angles and measure them in degrees.

Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.

Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.

Geometry

Complete, read and interpret information in tables, including timetables.

Solve find the difference problems using information presented in a line graph.

Find totals using information presented in a line graph.

Solve comparison problems using information presented in a line graph.

Statistics

I am learning to.....

