

Sequences

Describe and continue a sequence.

Draw a graph of a sequence.

Explain term to term sequences.

Find a missing term in a linear sequence.

Algebraic Notation

To be able to use a function machines up to two steps.

Substitute into expressions.

Form a sequence using an expression.

Equality and Equivalence

Collect like terms.

Solve one step equations.

Using the equivalence symbol.

Place Value and Ordering

Label and understand place value including decimals.

Work out intervals on a number lines.

Round to powers of 10.

Compare decimals and integers using inequalities.

Order decimals and integers.

Round to 1.s.f.

Find the range and median of data.

F/D/P Equivalence

Convert between fractions and decimals – tenths and hundreds.

Convert between fractions and decimals – Fifths and quarters.

Convert between fractions and decimals – eighths and thousands.

Convert fluently between fractions, decimals and percentages. (with calculator and without).

Find equivalent fraction and compare fractions.

Addition and Subtraction

Understand key language and properties of addition and subtraction.

Use formal methods to add and subtract using integers and decimals.

Solve problems using perimeter.

Solve problems with finances, tables and timetables.

Solve problems with frequency trees.

Solve problems with bar charts and line charts.

Multiplication and Division

Understand and use factors.

Understand and use multiples.

Multiply and divide integers and decimals by powers of 10.

Use formal methods to multiply and divide integers and decimals.

Understand and use order of operations.

Find the area of rectangles, parallelograms and triangles

Solve problems using the mean.

Adding and Subtracting Fractions

Convert between mixed numbers and improper fractions .

Add and subtract fractions with different denominators.

Add and subtract improper fractions and mixed numbers.

Add fractions and decimals.

Fraction and Percentage

Find a fraction of a given amount.

Use a given fraction to find the whole.

Find the percentage of amounts (non calculator).

Find the percentage of amounts (calculator).

Constructions

Use letters and labels correctly.

Draw and measure line segments.

Draw and measure angles.

Identify parallel and perpendicular lines.

Recognise types of triangles

Recognise types of quadrilateral

Identify polygons up to a decagon.

Draw a pie chart.

Directed Number

Order and Compare Direct Numbers

Add and Subtract with Directed Numbers

Multiply and Divide by Directed Numbers

Use order of operations

Substitute with negative numbers

Geometric Reasoning

Calculate angles at a point

Calculate angles on a straight line

Calculate angles using vertically opposite angles

Work out missing angles in a triangle.

Work out missing angles in a quadrilateral

Developing Number

Mental strategies to add and subtract.

Mental strategies to multiply and divide.

Using Factors to solve problems.

Derive number facts from other facts.

Derive algebra facts from other facts.

Use a calculator correctly.

Sets and Probability

Know and use the correct vocabulary of probability.

Generate a sample space for a single event.

Calculate the probability of single event.

Understand and use the probability scale.

Primes and Proof

Find and use multiples.

Find factors of numbers.

Recognise prime numbers.

Recognise triangle numbers.

Find HCF of a set of numbers

Find LCM of a set of numbers

Write a number as product of its primes.

Use a Venn to calculate the HCF and LCM.