Learning Journey Maths

'Safe Happy Learning'

Fluency | Problem Solving | **Key Skills** | Mastery of Basic skills | Cross Curricular | Mathematical Reasoning

Yr 9

Autumn

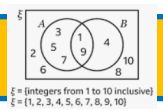
Term 1

A: 1, 1, 8, 8, 10
B: 1, 3, 6, 8, 12, 12

	mean	median	mode	range
A	6	8	8	9
B	7	7	12	11

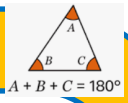
Straight line graphs, represent & Interpret inequalities. Factors, multiples & Venn diagrams.

Term 2



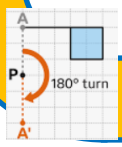
Properties of 2-D & 3-D shapes. Accurately measure & draw angles & triangles.

Term 3



Order of operations, decimals and fractions. Percentage increase & decrease. Money problems.

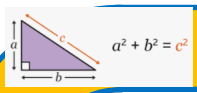
Term 4



Deduction: problem solving—angles in parallel lines, & polygons. Symmetry, rotation & translation. Pythagoras' theorem.

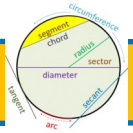
Spring

Term 5



Enlargement & symmetry. Ratio & proportion. Time, speed & distance: calculations & graphs. Probability.

Term 6



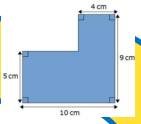
Algebraic representation. Circle geometry. Polygon geometry.

summer

Yr 8

Autumn

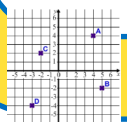
Term 1



Scale 1 : 20
Real length = 3·4 metres
Real width = 2·7 metres

Ratio & Scale, Multiplicative Change, Multiply and divide fractions.

Term 2

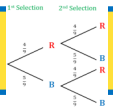


Coordinates and plotting graphs. Read and interpret scatter graphs. Tables and Probability.

Term 3

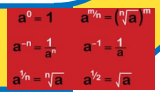
$2 \le n < 5$

$6x + 2 = 26$



Brackets, equations & inequalities. Solving one & two step equations.

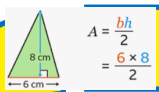
Term 4



Indices, Fractions, decimals & percentages. Standard form, Decimal calculations.

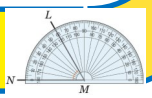
Spring

Term 5



Area of different polygons. Sets & Probability, Factors, Prime, Square & Cube numbers.

Term 6



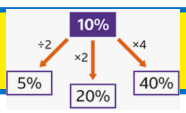
Construct, measure & use geometric notation. Develop geometric reasoning: angles and perimeter.

summer

$\frac{2}{5}$ of 18

$18 \div 5 \times 2$

Term 4



Term 3

Solving Multi-step Problems Involving Multiplication and Addition or Subtraction

Yr 7

Autumn

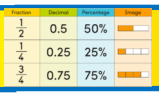
Fractions and percentages of amounts. Addition and Subtraction of fractions.

Multi-step problem solving with addition, subtraction, multiplication and division.

Term 1

$3(x+7) = 3x+21$

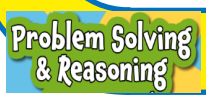
Term 2



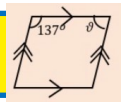
Number: Sequences, Understand & use algebraic notation, Equality & equivalence.

Number: Place value & ordering, Fraction, decimal & percentage equivalence.

Spring



Term 6

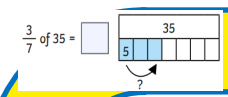


Term 5

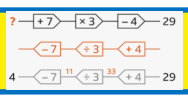
Themed projects, Consolidation & Problem Solving.

Shape: Accurately measure, draw classify & calculate angles in different polygons. Geometry: Position & direction—read & plot.

summer



Term 3



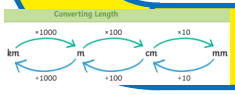
Term 4

Number: Ratio & scale factors. Algebra—function machines and equations. Decimals—Round, add, subtract, multiply and divide.

Number: Fractions, decimals & percentages. Measurements: Area, perimeter & volume. Statistics: Pie charts & percentages.

Yr 6

Autumn



Term 2

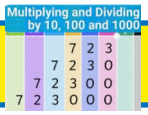
Term 1

Number: Fractions—Compare, order, add, subtract, multiply & divide. Fractions of amounts. Measurement : Converting units.

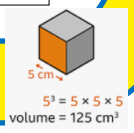
Number: Compare & round any integer. Add, subtract, multiply and divide.

summer

Term 5



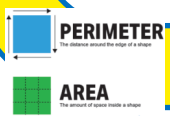
Term 6



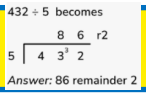
Geometry: Shape, Position & Direction. Number: Add & subtract decimals. Multiply & divide by 10, 100 & 1000.

Number: compare & order negative numbers. Measurement: Convert between units of measure. Estimate volume & capacity.

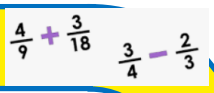
Spring



Term 4



Term 3

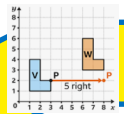


Number: Equivalent fractions, decimals & percentages. Measurement: Perimeter & Area. Statistics: interpretation.

Number: Multiply up to 4-digits by 2-digits, short division with remainders. Fractions of amounts. Fractions as decimals

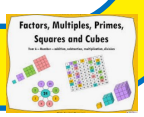
Yr 5

Autumn



Term 1

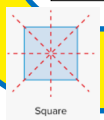
Term 2



Number: comparing, ordering & rounding, up to 7-digits. Adding & subtracting up to 4-digits. Inverse operations.

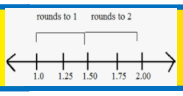
Number: Common multiples, factors, prime, square & cube numbers. Fractions—Equivalent, convert, add, subtract.

Spring



Term 6

Term 5



Geometry: Shape— angles & symmetry. Statistics— charts & graphs. Geometry: Position & Direction—translation on a grid.

Number: Comparing, ordering & rounding decimals. Measurement: Money—Comparing & calculating. Time— analogue & digital.

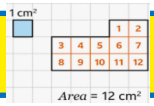
Yr 4

Autumn

Term 1

Number: Place Value—order, compare & round numbers up to 10,000. Addition & Subtraction—up to 4-digits.

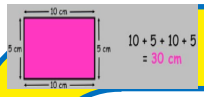
Term 2

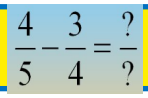


Measure: Calculate & compare area.
Number: Multiplication & Division— 0 to 12 times tables.

Spring

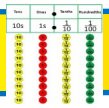
Term 3





Number: Multiplication & Division—factor pairs, up to 3-digit numbers by 1-digit. Measure: length and perimeter.

Term 4

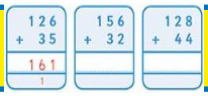


Number: Fractions—mixed numbers, improper and equivalent fractions, add & subtract. Decimals: tenths & hundredths.

Yr 3

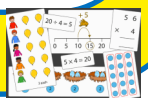
Autumn

Term 1



Number: represent, compare, order & partition numbers to 1000. Addition & Subtraction — number bonds.

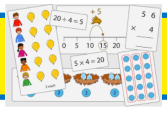
Term 2



Number: Addition & Subtraction—up to 3-digit numbers. Multiplication & Division—sharing, grouping, times tables.

Spring

Term 3



Measurement: Money— identify, compare & calculate amounts. Number: Multiplication & Division, arrays, groupings & times tables.

Term 4

Measure, compare & order lengths & heights (cm, m), mass (g, kg), volume & capacity (ml, l).

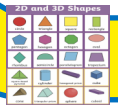
Yr 2

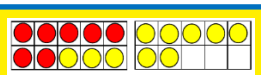
Autumn

Term 1

Number: Place Value—read, write, compare, order & partition numbers to 100. Addition & Subtraction—number bonds to 20.

Term 2





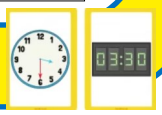
Number: Addition & subtraction—crossing tens & up to 2 digits. Geometry: 2D & 3D—recognise shapes & related properties.

summer

Term 5

Number: Fractions—add & subtract. Measure: add, subtract & convert between pounds & pence.

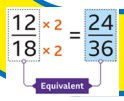
Term 6

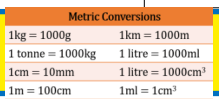


Measure: Time— Analogue & digital clocks, years, months, days, hours, minutes.
Geometry: polygons & angles.
Statistics: pictograms & bar charts.

summer

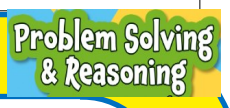
Term 4





Number: Fractions—compare, order & find equivalent fractions. Measure: measure & compare mass (g, kg), volume & capacity.

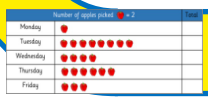
Term 3

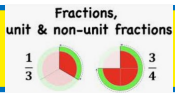


Number: Multiplication & Division—reasoning. Measure: measure & convert. between mm, cm & m, calculate perimeter.

Spring

Term 6





Statistics: Draw & interpret simple tally charts, tables and pictograms.
Geometry: Position and Direction.

Term 5

Number: Fractions—identify & compare simple unitary and non-unitary fractions.
Measure: Time—reading analogue clocks.