

Year 2 Maths Curriculum



Autumn

Key Vocab

Place Value (Within 100)

Tens, Ones, place value, place value grid, Partition, partitioning, more, fewer, fewest, greatest, smallest

Addition & Subtraction (Within 100)

add, subtract, plus, minus, sum, total, difference, fact family, number sentence, number bonds, 10 more / 10 less, bar model, represent

Geometry - Properties of Shape

2D shape, 3D shape, side, edge, face, vertex, vertices, curve, straight, symmetry, line of symmetry, polygon, corner, sphere, cube, cuboid, cone, cylinder, pyramid

Key Skills

Number: Place Value (within 100)

- Recognise including the place value, read and write numbers to 100 and beyond.
- Count forwards and backwards in steps of 1, 2, 3, 5, 10 and 20
- Represent numbers using objects, pictorial representations, and number lines.
- Compare and order numbers using $<$, $>$ and $=$.
- Identify 1 more, 1 less, 10 more, and 10 less than a given number.
- Use place value and number facts to solve problems

Number: Addition and Subtraction (within 100)

- Add and subtract one- and two-digit numbers within 100 using concrete, mental and pictorial representations and written methods.
- Use formal written methods for addition and subtraction.
- Solve one-step and two-step problems involving addition and subtraction.

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- Show that addition of 2 numbers can be done in any order and subtraction of 1 number from another cannot.
- Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
- Apply number bonds and place value to support calculations.
- Begin to use estimation and inverse operations to check answers.

Geometry: Shape

- Recognise and name 2D and 3D shapes.
- Describe properties of shapes (sides, vertices, faces).
- Sort and classify shapes according to properties.
- Identify patterns and symmetry in shapes.

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Spring

Key Vocab

Money

Pound (£), Pence (p), Coins, Notes, Value, Amount, Total, Change, Cost, Price, Difference, Equal to, Greater than (>), Less than (<), Compare, Order

Multiplication and Division

multiply, multiplication, divide, division, equal groups, lots of, groups of
Array, repeated addition, row, column, share, share equally, half, double, odd, even

Length & Height

centimetre (cm), metre (m), ruler, metre stick, length, height, width, distance, long/longer/longest, short/shorter/shortest, tall/taller/tallest, compare

Mass, Capacity & Temperature

Mass, weight, balance, Heavier, lighter, gram (g), kilogram (kg), capacity, volume, litre (l), millilitre (ml), temperature, thermometer, degrees Celsius ($^{\circ}\text{C}$), estimate

Key Skills

Measurement: Length, Mass, Capacity and Money

- Estimate, measure lengths, heights, temperature, mass, and capacity using standard equipment and units of measure. (cm, m, g, kg, ml, l).
- Recognise and use coins and notes to solve simple money problems.
- Solve practical problems involving measurement and money.
- Compare and order lengths, mass, volume and capacity using standard units record the results using $>$ $<$ $=$.
- Recognise and use coins, notes and symbols to solve simple money problems.
- Combine amounts to make a particular value and equivalent amounts using different coins.
- Solve practical problems involving money including giving change.

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Number: Multiplication and Division

- Recognise, make and write equal groups.
- Understand multiplication as repeated addition.
- Understand division as sharing and grouping.
- Solve simple practical problems involving multiplication and division.
- Begin to recall and use multiplication facts for 2, 5 and 10 times tables including recognizing odd and even numbers.
- Recall and use multiplication facts for 2, 5, and 10 times tables.
- Understand multiplication as repeated addition and arrays.
- Understand division as sharing and grouping.
- Show that multiplication of 2 numbers can be done in any order and division of 1 number by another cannot.
- Calculate mathematical statement for multiplication and division within the multiplication tables and write them using the multiplication, division and equals signs.
- Solve practical problems involving multiplication and division.
- Begin to solve missing number problems involving multiplication and division.
- Represent problems using arrays, repeated addition, and sharing/grouping.
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Summer

Key Vocab

Fractions

Whole, half, quarter, one half, one quarter, two halves, two quarters equal parts, fraction, numerator, denominator (introduced informally)

Time

O'clock, half past, quarter past, quarter to, hour hand, minute hand, duration

Statistics

tally chart, pictogram, block diagram, table, data, most, least, more than, fewer than, compare

Geometry: Properties of Shape & Position/Direction

Polygon, quadrilateral, pentagon, hexagon, octagon, prism, edge, face, vertex/vertices, curved surface, symmetry, line of symmetry, clockwise, anticlockwise, quarter turn, half turn, three-quarter turn

Key Skills

Fractions

- Recognise and find $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, and $\frac{3}{4}$ of a shape, set of objects, or quantity.
- Use simple fraction language (half, quarter, third) accurately.
- Solve practical problems involving fractions.
- Recognise and find $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$ of a shape, set of objects, length or quantity.
- Write simple fractions eg $\frac{1}{2}$ of 6 = 3
- Recognise equivalent fractions eg $\frac{2}{4}$ and $\frac{1}{2}$
- Use simple fraction language accurately.

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Measurement: Time

- Compare and sequence intervals of time
- Tell the time to the nearest 5 minutes, including quarter past and quarter to.
- Know the number of minutes in an hour and hours in a day.
- Solve practical problems involving measurement, money, and time.

Geometry: Shape and Position

- Recognise and name 2D and 3D shapes.
- Describe properties of shapes (sides, vertices, faces).
- Identify 2D shapes on the surface of 3D shapes
- Sort and classify shapes according to properties.
- Use positional language to describe locations and movements.
- Identify, order and arrange combinations of mathematical objects in patterns and sequences.

Statistics

- Interpret and construct simple pictograms, tally charts, block diagrams and tables.
- Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.
- Ask and answer questions about totalling and comparing categorical data.
- Record, interpret, collate, organise and compare information.