Royale Tutors

Year 1 Mathematics Curriculum

1. Number - Number and Place Value

- Count to and across 100, forwards and backwards from any number.
- Count, read and write numbers to 100 in numerals.
- Count in multiples of 2s, 5s and 10s.
- Identify one more and one less than a given number.
- Compare and order numbers using the symbols: >, <, =.
- Use place value and number facts to solve problems.

2. Number - Addition and Subtraction

- Represent and use number bonds within 20 (e.g., 5 + 3 = 8).
- Read, write, and interpret mathematical statements involving +, and =.
- Add and subtract one-digit and two-digit numbers to 20, including zero.
- Solve one-step problems using objects, pictures and number lines.

3. Number – Multiplication and Division (Introductory Concepts)

- Count in 2s, 5s and 10s (linking to multiplication).
- Solve simple problems involving grouping and sharing.

4. Number – Fractions

- Recognise, find and name 1/2 as one of two equal parts of an object, shape, or quantity.
- Recognise, find and name 1/4 as one of four equal parts of an object, shape, or quantity.

5. Measurement

- Compare, describe and solve practical problems for:
- Length and height (long/short, tall/short, longer/shorter)
- - Mass/weight (heavy/light, heavier than/lighter than)
- - Capacity/volume (full/empty, more than/less than)
- - Time (quicker/slower, earlier/later)
- Measure and begin to record:
- - Length and height
- - Mass/weight
- - Capacity and volume

- Time (hours, minutes, seconds)
- Recognise and know the value of coins and notes.
- Sequence events in chronological order.
- Recognise and use language relating to dates, including days of the week, months and years.
- Tell the time to the hour and half past the hour; draw hands on a clock face.

6. Geometry – Properties of Shapes

- Recognise and name common 2-D shapes (e.g., rectangles, squares, circles, triangles).
- Recognise and name common 3-D shapes (e.g., cuboids, cubes, pyramids, spheres).

7. Geometry – Position and Direction

- Describe position, direction and movement, including:
- - Whole, half, quarter and three-quarter turns
- Left, right, above, below

8. Statistics (Informal Introduction)

- Sort objects into groups.
- Use tally marks and pictograms with guidance.
- Talk about the most/least/fewest/more.

Suggested Termly Breakdown

- Autumn: Place value, number bonds, addition/subtraction, 2-D shapes
- Spring: Measurement (length, weight, time), introduction to money
- Summer: Fractions, 3-D shapes, position & direction, word problems

Royale Tutors Year 2 Mathematics Curriculum

1. Number - Number and Place Value

- Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.
- Recognise the place value of each digit in a two-digit number (tens, ones).
- Identify, represent and estimate numbers using different representations, including the number line.
- Compare and order numbers from 0 up to 100; use <, > and = signs.
- Read and write numbers to at least 100 in numerals and in words.
- Use place value and number facts to solve problems.

2. Number - Addition and Subtraction

- Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
- Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:
- - A two-digit number and ones
- A two-digit number and tens
- - Two two-digit numbers
- - Adding three one-digit numbers
- Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.
- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

3. Number - Multiplication and Division

- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.
- Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the symbols ×, ÷ and =.
- Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.
- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts.

4. Number – Fractions

- Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity.
- Write simple fractions, for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.

5. Measurement

- Choose and use appropriate standard units to estimate and measure length/height, mass, temperature, and capacity.
- Compare and order lengths, mass, volume/capacity and record the results using >, < and
 =.
- Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.
- Find different combinations of coins that equal the same amounts of money.
- Solve simple problems in a practical context involving addition and subtraction of money of the same unit.
- Compare and sequence intervals of time.
- Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.
- Know the number of minutes in an hour and the number of hours in a day.

6. Geometry – Properties of Shapes

- Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.
- Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.
- Identify 2-D shapes on the surface of 3-D shapes (e.g., a circle on a cylinder, a triangle on a pyramid).
- Compare and sort common 2-D and 3-D shapes and everyday objects.

7. Geometry – Position and Direction

- Order and arrange combinations of mathematical objects in patterns and sequences.
- Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).

8. Statistics

• Interpret and construct simple pictograms, tally charts, block diagrams and simple 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.

Suggested Termly Breakdown

- Autumn: Place value, addition & subtraction, simple shapes and data handling.
- Spring: Multiplication, division, fractions, money and time.
- Summer: Geometry, measurements, problem-solving, revision and assessments.

