Maths Planning Overview – Year 2

Term 1	Term 2	Term 3
Number, place value and rounding ● count in steps of 2 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 ● read and write numbers to at least 100 in numerals ● use place value and number facts to solve problems **Measurement** ● compare and order lengths, mass, volume / capacity ● compare and sequence intervals of time **Statistics** ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity **Number and place value** ● *count in tens from any number, forward and backward* ● *recognise the place value of each digit in a two-digit number (tens, ones)* ● *use place value and number facts to solve problems* **Addition and subtraction** ● solve problems with addition and subtraction: – using concrete objects and pictorial representations, including those involving numbers, quantities and measures – applying their increasing knowledge of mental methods ● recall and use addition and subtraction facts to 20 fluently ● add and subtract numbers using concrete objects, pictorial representations, and mentally, including: – a two-digit number and ones – a two-digit number and tens – adding three one-digit numbers **Measurement** ● solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change ● ask and answer questions about totalling and comparing categorical data **Geometry: properties of shapes**	**Number and place value** ● *count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward* **Multiplication and division** ● recognise odd and even numbers **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. **Number and place value** ● *count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward* **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 multiplication (×), division (÷) and equals (=) signs ● 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, including problems in contexts **Measurement** ● *recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value* ● *find different combinations of coins to equal the same amounts of money* ● tell and write the time to five minutes ● know the number of minutes in an hour and the number of hours in a day. **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)*	**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* **Measurement** ● *choose and use appropriate standard units to estimate and measure length / height in any direction (m / cm); mass (kg / g); temperature (°C); capacity (litres / ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels* ● *compare and order lengths, mass, volume / capacity and record the results using >, < and =* ● *compare and sequence intervals of time* **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* **Number and place value** ● *count in tens from any number, forward and backward* ● *recognise the place value of each digit in a two-digit number (tens, ones)* ● *use place value and number facts to solve problems* **Addition and subtraction** ● *solve problems with addition and subtraction:* – *using concrete objects and pictorial representations, including those involving numbers, quantities and measures* – *applying their increasing knowledge of mental methods and written methods* ● *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:*

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- 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, [for example, a circle on a cylinder and a triangle on a pyramid]
- compare and sort common 2-D and 3-D shapes and everyday objects

Geometry: position and direction

- order and arrange combinations of mathematical objects in patterns and sequences

Number and place value

- *count in steps of 2 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*
- *use place value and number facts to solve problems*

Measurement

- *compare and order lengths, mass, volume / capacity* and record the results using >, < and =
- *compare and sequence intervals of time*

Statistics

- *ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity*

Number and place value

- *count in tens from any number, forward and backward*
- *recognise the place value of each digit in a two-digit number (tens, ones)*
- *use place value and number facts to solve problems*

Addition and subtraction

- *solve problems with addition and subtraction:*
  - *using concrete objects and pictorial representations, including those involving numbers, quantities and measures*
  - *applying their increasing knowledge of mental methods*

- *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*
- *use place value and number facts to solve problems*

Measurement

- choose and use appropriate standard units to estimate and measure length / height in any direction (m / cm); mass (kg / g); temperature (°C); capacity (litres / ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
- *compare and order lengths, mass, volume / capacity and record the results using >, < and =*
- *compare and sequence intervals of time.*

Number and place value

- *count in tens from any number, forward and backward*
- *recognise the place value of each digit in a two-digit number (tens, ones)*
- *use place value and number facts to solve problems*

Addition and subtraction

- *solve problems with addition and subtraction:*
  - *using concrete objects and pictorial representations, including those involving numbers, quantities and measures*
  - *applying their increasing knowledge of mental methods*
- *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*

Measurement

  - *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*

Statistics

- *ask and answer questions about totalling and compare categorical data*

Number and place value

- *count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward*

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 multiplication (×), division (÷) and equals (=) signs*
- *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, including problems in contexts*

Fractions

- recognise, find, name and write fractions ⅓, ¼, ²⁄₄ and ³⁄₄ of a length, shape, set of objects or quantity
- write simple fractions for example ½ of 6 = 3 and recognise the equivalence of ²⁄₄ and ½.

Measurement

- *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

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● *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* – *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 **Measurement** ● recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value ● find different combinations of coins to equal the same amounts of money ● *solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change* **Statistics** *ask and answer questions about totalling and comparing categorical data*	● *recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value* ● *find different combinations of coins to equal the same amounts of money* ● *solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change* **Statistics** ● *ask and answer questions about totalling and comparing categorical data.* **Geometry: properties of shape** ● *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, [for example, a circle on a cylinder and a triangle on a pyramid]* ● *compare and sort common 2-D and 3-D shapes and everyday objects* **Geometry: position and direction** ● *order and arrange combinations of mathematical objects in patterns and sequences* ● *use mathematical vocabulary to describe position, direction and movement.*	● *know the number of minutes in an hour and the number of hours in a day.* **Geometry: properties of shape** ● *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, [for example, a circle on a cylinder and a triangle on a pyramid]* ● *compare and sort common 2-D and 3-D shapes and everyday objects* **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) **Fractions** ● *recognise, find, name and write fractions ⅓, ¼, ²⁄₄ and ¾ of a length, shape, set of objects or quantity* *write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of ²⁄₄ and ½*