## Year 2 Medium-Term Plans

| Number - Number and place value <br> Unit 1 Number - Addition and subtraction <br> Geometry - Properties of shapes |  |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Number and place value | Week 1 |  |
| - recognise the place value of each digit in a twodigit number (tens, ones) <br> - identify, represent and estimate numbers using different representations, including the number line <br> - compare and order numbers from 0 up to 100; use <, > and = signs <br> - read and write numbers to at least 100 in numerals and in words <br> - use place value and number facts to solve problems | - Read and write numbers to 50 in numerals <br> - Recognise the place value of each digit in a two-digit number up to 50 (tens, ones) | 1 |
|  | - Compare and order numbers from 0 up to 50; use < and > signs | 2 |
|  | - Read and write numbers to 50 in words | 3 |
|  | - Use place value and number facts to solve problems | 4 |
| Number - Addition and subtraction | Week 2 |  |
| - recall and use addition and subtraction facts to 20 fluently <br> - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <br> - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | - Understand that addition of two numbers can be done in any order (commutative rule) but subtraction cannot | 1 |
|  | - Recall and use addition and subtraction facts to 20 | 2 |
|  | - Recognise and use the inverse relationship between addition and subtraction, and use this to check calculations | 3 |
|  | - Recall and use addition and subtraction facts to 20 , using number lines, and understand the term 'difference' | 4 |
| Geometry - Properties of shapes | Week 3 |  |
| - identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line <br> - compare and sort common 2-D shapes <br> - draw lines and shapes using a straight edge * | - Identify and describe the properties of 2-D shapes | 1 |
|  | - Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line | 2 |
|  | - Draw straight lines and 2D shapes using a straight edge | 3 |
|  | - Compare and sort common 2D shapes using appropriate mathematical vocabulary (including quadrilateral) | 4 |


| Unit 2 Number - Addition and subtraction <br> Measurement (length \& height) |  |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Multiplication and division | Week 1 |  |
| - solve problems with addition and subtraction: <br> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> - applying their increasing knowledge of mental methods <br> - recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <br> - recognise and use the inverse relationship between addition and subtraction and use this to solve missing number problems | - Recall and use addition and subtraction facts to 20, and derive and use related facts <br> - Apply increasing knowledge of mental methods | 1 |
|  | - Recall and use addition facts to 20 fluently, and derive and use related facts up to 100 <br> - Apply increasing knowledge of mental methods | 2 |
|  | - Recall and use subtraction facts to 20 , and derive and use related facts up to 100 <br> - Apply increasing knowledge of mental methods | 3 |
|  | - Use patterns of similar calculations <br> - Apply increasing knowledge of mental methods | 4 |
|  | Week 2 |  |
|  | - Add a one-digit number to a multiple of 10 | 1 |
|  | - Subtract a one-digit number from a multiple of 10 | 2 |
|  | - Solve missing number problems involving addition <br> - Recognise and use the inverse relationship between addition and subtraction to solve missing number problems | 3 |
|  | - Solve missing number problems involving subtraction <br> - Recognise and use the inverse relationship between addition and subtraction to solve missing number problems | 4 |
| Measurement (length \& height) | Week 3 |  |
| - choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ) to the nearest appropriate unit, using rulers <br> - compare and order lengths and record the results using >, < and = | - Estimate, measure and record lengths in centimetres <br> - Estimate, measure and record heights in centimetres and metres <br> - Convert metres to centimetres and vice versa | 1 |
|  |  | 2 |
|  | - Measure, compare and order different lengths <br> - Record using >, < and = | 3 |
|  | - Compare lengths using simple multiples | 4 |

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## Year 2 Mathematics Planning

Unit 3 Number - Multiplication and division, including Number and place value Geometry - Position and direction

National Curriculum attainment targets
Pupils should be taught to:
Number - Multiplication and division

- calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) 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

Number - Number and place value

- count in steps of 2 and 5 from 0 , forward and backward


## 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

| Lesson objectives Pupils will be taught to: | Lesson |
| :---: | :---: |
| Week 1 |  |
| - Count in steps of 2 | 1 |
| - Calculate mathematical statements for multiplication within the 2 times table and write them using the multiplication $(x)$ and equals (=) signs <br> - Show that multiplication of two numbers can be done in any order (commutative) | 2 |
| - Calculate mathematical statements for division within the 2 times table and write them using the division ( $\div$ ) and equals (=) signs <br> - Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | 3 |
| - Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | 4 |
| Week 2 |  |
| - Count in steps of 5 | 1 |
| - Calculate mathematical statements for multiplication within the 5 times table and write them using the multiplication ( $\times$ ) and equals (=) signs <br> - Show that multiplication of two numbers can be done in any order (commutative) | 2 |
| - Calculate mathematical statements for division within the 5 times table and write them using the division ( $\div$ ) and equals (=) signs <br> - Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | 3 |
| - Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | 4 |
| Week 3 |  |
| - Identify patterns and sequences involving 2-D shapes to make predictions about what comes next | 1 |
| - Order and arrange mathematical shapes to create patterns and sequences | 2 |
| - Describe and find the position of a square on a grid of squares with the rows and columns labelled | 3 |
| - Describe direction using mathematical language (North, South, East, West) | 4 |

## Year 2 Medium-Term Plans

| Number - Multiplication and division, including Number and place value <br> Number - Fractions <br> Measurement (time) | ing Number and place value |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Multiplication and division | Week 1 |  |
| - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs <br> - show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot <br> - solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | - Count in steps of 10 | 1 |
|  | - Calculate mathematical statements for multiplication within the 10 times table and write them using the multiplication $(x)$ and equals (=) signs <br> - Show that multiplication of two numbers can be done in any order (commutative) | 2 |
|  | - Calculate mathematical statements for division within the 10 times table and write them using the division ( $\div$ ) and equals (=) signs <br> - Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | 3 |
| Number - Number and place value |  |  |
| - count in steps of 2 and 5 from 0 , and in tens from any number, forward and backward | - Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | 4 |
| Number - Fractions | Week 2 |  |
| - recognise, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity <br> - write simple fractions for example, $\frac{1}{2}$ of $6=3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ | - Recognise, find, name and write fractions $\frac{1}{2}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a shape | 1 |
|  | - Recognise, find, name and write fractions $\frac{1}{2}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a shape <br> - Recognise that two quarters are the same as one half | 2 |
|  | - Find half of a set of objects <br> - Identify the total number of objects when half is known | 3 |
|  | - Find a quarter and three-quarters of a set of objects <br> - Identify the total number of objects when a quarter of three-quarters is known | 4 |
| Measurement (time) <br> - 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 <br> - know the number of minutes in an hour | Week 3 |  |
|  | - Tell and write the time to quarter past the hour <br> - Draw the hands on a clock face to show these times | 1 |
|  | - Tell and write the time to quarter to the hour <br> - Draw the hands on a clock face to show these times | 2 |
|  | - Tell and write the time to quarter past and quarter to the hour <br> - Draw the hands on a clock face to show these times | 3 |
|  | - Tell and write the time to 5 minutes, focusing on 5 to 30 minutes past <br> - Draw the hands on a clock face to show these times | 4 |

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## Year 2 Mathematics Planning

| Unit 5 Number - Addition and subtraction, including Measurement (money) Geometry - Properties of shapes |  |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Number and place value | Week 1 |  |
| - count in steps of 3 from 0 , forward and backward <br> - identify, represent and estimate numbers using different representations, including the number line <br> compare and order numbers from 0 up to 100; use <, $>$ and $=$ signs <br> - read and write numbers to at least 100 in numerals and in words | - Count in steps of 3 | 1 |
|  | - Read and write numbers to 100 in numerals and in words | 2 |
|  | - Compare and order numbers from 0 up to 100; use <, > and = signs | 3 |
|  | - Estimate numbers using a number line | 4 |
| Number - Addition and subtraction | Week 2 |  |
| - solve problems with addition and subtraction: <br> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> - applying their increasing knowledge of mental methods <br> - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - a two-digit number and ones | - Add two-digit numbers and ones | 1 |
|  | - Subtract two-digit numbers and ones | 2 |
|  | - Double numbers to 20 | 3 |
|  |  |  |
| Measurement (money) |  |  |
| - recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value | - Recognise and use symbols for pounds (£) and pence (p) <br> - Combine amounts to make a particular value | 4 |
|  | Week 3 |  |
| - identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces <br> - identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] <br> - compare and sort common 2-D and 3-D shapes and everyday objects | - Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces | 1 |
|  | - Identify 2-D shapes on the surface of 3-D shapes | 2 |
|  | - Compare and sort common 2-D and 3-D shapes | 3 |
|  | - Compare and sort common 2-D and 3-D shapes and everyday objects | 4 |


| Unit $6 \quad \begin{aligned} & \text { Number - Multiplication and division, including Number and place value } \\ & \text { Measurement (mass) }\end{aligned}$ |  |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Multiplication and division | Week 1 |  |
| - recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers <br> - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs <br> - solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | - Count in steps of 2 and 5 from 0, forward and backward <br> - Count in tens from any number, forward and backward | 1 |
|  | - Recall and use multiplication facts for the 2 multiplication table | 2 |
|  | - Recall and use multiplication and division facts for the 2 multiplication table | 3 |
|  | - Recall and use multiplication facts for the 5 multiplication table | 4 |
|  | Week 2 |  |
|  | - Recall and use multiplication and division facts for the 5 multiplication table | 1 |
|  | - Recall and use multiplication facts for the 10 multiplication table | 2 |
|  | - Recall and use multiplication and division facts for the 10 multiplication table | 3 |
| - count in steps of 2 and 5 from 0 , and in tens from any number, forward and backward | - Solve problems involving multiplication and division, using arrays | 4 |
| Measurement (mass) | Week 3 |  |
| - choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate unit, using scales | - Estimate, measure and record mass in kilograms | 1 |
|  | - Estimate, measure and record masses in grams and kilograms <br> - Convert kilograms to grams and vice versa | 2 |

## Introduction

## Year 2 Medium-Term Plans

- compare and order mass and record the results using •Measure, compare and order different masses - Record using >, < and =
- Compare mass using simple multipless
* Notes and guidance (non-statutory)


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## Year 2 Mathematics Planning

| Number - Addition and subtraction <br> Number - Addition and subtraction, including Measurement (money) <br> Statistics | ing Measurement (money) |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Addition and subtraction | Week 1 |  |
| - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - a two-digit number and tens <br> - adding three one-digit numbers <br> - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <br> - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | - Add two-digit numbers and tens | 1 |
|  | - Subtract two-digit numbers and tens | 2 |
|  | - Find missing numbers when multiples of 10 are added to or subtracted from two-digit numbers | 3 |
|  | - Add three one-digit numbers <br> - Show that addition can be done in any order | 4 |
| Number - Addition and subtraction | Week 2 |  |
| - solve problems with addition and subtraction: <br> - using concrete objects and pictorial representations, including those involving numbers <br> - applying their increasing knowledge of mental methods <br> - add and subtract numbers using concrete objects, pictorial representations, and mentally | - Add a 'near multiple of 10' to a two-digit number | 1 |
|  | - Subtract a 'near multiple of 10' from a two-digit number | 2 |
|  | - Find different combinations of coins that equal the same amounts of money | 3 |
| Measurement (money) |  |  |
| - find different combinations of coins that equal the same amounts of money <br> - solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change | - Solve practical money problems, including giving change | 4 |
| Statistics | Week 3 |  |
| - interpret and construct tally charts and simple tables <br> - ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity <br> - ask and answer questions about totalling and comparing categorical data | - Sort objects into groups, counting the number of objects in each category and comparing totals | 1 |
|  | - Construct a tally chart from a Carroll Diagram and vice versa | 2 |
|  | - Interpret and construct a simple frequency table | 3 |
|  | - Sort information using a Venn Diagram | 4 |

## Year 2 Medium-Term Plans

| Number - Multiplication and division, including Number and place value <br> Number - Fractions <br> Measurement (volume and capacity) | ing Number and place value |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Multiplication and division | Week 1 |  |
| - recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers <br> - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs <br> - show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | - Count in steps of 2, 5 and 10 <br> - Recognise odd and even numbers | 1 |
|  | - Recall and use multiplication and division facts for the 2 multiplication tables <br> - Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division ( $\div$ ) and equals (=) signs | 2 |
|  | - Recall and use multiplication and division facts for the 5 multiplication tables <br> - Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication $(x)$, division ( $\div$ ) and equals (=) signs <br> - show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | 3 |
| Number - Number and place value |  |  |
| - count in steps of 2 and 5 from 0, and in tens from any number, forward and backward | - Recall and use multiplication and division facts for the 10 multiplication tables <br> - Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs | 4 |
| Number - Fractions | Week 2 |  |
| - recognise, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity <br> - write simple fractions for example, $\frac{1}{2}$ of $6=3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ | - Find $\frac{1}{4}, \frac{1}{2}$ and $\frac{3}{4}$ of a length | 1 |
|  | - Recognise $\frac{1}{3}, \frac{2}{3}$ and $\frac{3}{3}$ of a shape <br> - Find $\frac{1}{3}$ and $\frac{2}{3}$ of a length, set of objects or quantity | 2 |
|  | - Recognise $\frac{1}{3}, \frac{2}{3}$ and $\frac{3}{3}$ of a shape <br> - Find $\frac{1}{3}$ and $\frac{2}{3}$ of a length, set of objects or quantity | 3 |
|  | - Link fractions to division and multiplication | 4 |
| Measurement (volume and capacity) | Week 3 |  |
| - choose and use appropriate standard units to estimate and measure capacity (litres $/ \mathrm{ml}$ ) to the nearest appropriate unit, using measuring vessels <br> - compare and order volume/capacity and record the results using >, < and = | - Estimate, measure and record capacity in litres and millilitres <br> - Measure, compare and order different capacities <br> - Convert from litres to millilitres and vice versa | 1 |
|  |  | 2 |
|  | - Measure, compare and order different liquid volumes in litres and millilitres <br> - Record using >, < and = | 3 |
|  | - Compare capacity and volume using simple multiples | 4 |

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## Year 2 Mathematics Planning

| Unit 9 |  |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Number and place value | Week 1 |  |
| - count in steps of 3 from 0, forward and backward <br> - recognise the place value of each digit in a twodigit number (tens, ones) <br> - compare and order numbers from 0 up to 100 ; use <, > and = signs <br> - use place value and number facts to solve problems | - Count in steps of 3 | 1 |
|  | - Recognise the place value of each digit in a two-digit number up to 100 | 2 |
|  | - Compare and order numbers from 0 up to 100; use <, > and = signs | 3 |
|  | - Use place value and number facts to solve problems | 4 |
| Number - Addition and subtraction | Week 2 |  |
| - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - two two-digit numbers <br> - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <br> - recognise and use the inverse relationship between addition and subtraction and use this to check calculations | - Add two two-digit numbers using the 1-100 number square | 1 |
|  | - Add two two-digit numbers using the empty number line | 2 |
|  | - Subtract two two-digit numbers using the 1-100 number square | 3 |
|  | - Subtract two two-digit numbers using the empty number line | 4 |
| Geometry - Position and direction | Week 3 |  |
| - 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 anticlockwise) | - Use mathematical vocabulary to describe rotation as a turn for quarter, half and three-quarter turns (clockwise and anti-clockwise) | 1 |
|  | - Use mathematical vocabulary to describe movement and distinguish between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise) | 2 |
|  | - Use mathematical vocabulary to describe position, direction and movement | 3 |
|  | - Use mathematical vocabulary to give directions to navigate a course | 4 |

* Notes and guidance (non-statutory)

| Unit 10 Number - Multiplication and division, including Number and place value Measurement, including Temperature |  |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Multiplication and division | Week 1 |  |
| - recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers <br> - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $x$ ), division ( $\div$ ) and equals (=) signs <br> - solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | - Count in steps of 2 from 0 | 1 |
|  | - Recall and use multiplication and division facts for the 2 multiplication table | 2 |
|  | - Count in steps of 5 from 0 | 3 |
|  | - Recall and use multiplication and division facts for the 5 multiplication table | 4 |
|  | Week 2 |  |
|  | - Count in steps of 10 from 0 | 1 |
|  | - Recall and use multiplication and division facts for the 10 multiplication table | 2 |
|  | - Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables <br> - Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division ( $\div$ ) and equals (=) signs | 3 |
| - count in steps of 2 and 5 from 0 , and in tens from any number, forward and backward | - Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | 4 |
| Measurement, including Temperature | Week 3 |  |
|  | - Solve problems involving temperature | 1 |

## Year 2 Medium-Term Plans

- choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ); mass (kg/g); temperature $\left({ }^{\circ} \mathrm{C}\right)$; 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 $=$
\(\left.\left.$$
\begin{array}{|l|c|}\hline \text { - Solve problems which involve comparing, measuring and ordering } & 2 \\
& \text { length, height and width } \\
\text { - Convert from centimetre to metres and vice versa }\end{array}
$$\right] \begin{array}{l}- Solve problems which involve comparing, measuring and ordering mass <br>

- Convert from grams to kilograms and vice versa\end{array}\right]\)| - Solve problems which involve comparing, measuring and ordering |
| :--- |
| - Capacity and volume |
| - Convert from millilitres to litres and vice versa |

* Notes and guidance (non-statutory)

| Unit 11 |  |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Addition and subtraction | Week 1 |  |
| - solve problems with addition and subtraction: <br> - using concrete objects and pictorial representations including those involving numbers, quantities and measures <br> - applying their increasing knowledge of mental and written methods <br> - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - two two-digit numbers <br> - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <br> - recognise and use the inverse relationship between addition and subtraction and use this to check calculations <br> - record addition and subtraction in columns to support place value and prepare for formal written methods with larger numbers * | - Add two two-digit numbers using partitioning <br> - Solve problems with addition, applying an increasing knowledge of mental and written methods - partitioning | 2 |
|  | - Subtract two two-digit numbers using partitioning | 3 |
|  | - Solve problems with subtraction, applying an increasing knowledge of mental and written methods - partitioning | 4 |
|  | Week 2 |  |
|  | - Add two two-digit numbers using the expanded written method | 1 |
|  | - Subtract two two-digit numbers using the written method | 2 |
|  | - Solve addition and subtraction problems using written methods | 3 |
|  | - Solve addition and subtraction problems using mental and written methods | 4 |
| Statistics | Week 3 |  |
| - interpret and construct simple pictograms block diagrams and simple tables <br> - use many-to-one correspondence in pictograms with simple ratios of 2 * <br> - ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity <br> - ask and answer questions about totalling and comparing categorical data | - Make and use a block diagram to ask and answer questions about information gathered <br> - Compare pictograms and block diagrams | 1 |
|  | - Make and use a block diagram to ask and answer questions about information gathered | 2 |
|  | - Construct a simple pictogram and ask and answer questions from the information collected | 3 |
|  | - Begin to compare different presentations of the same information | 4 |

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## Year 2 Mathematics Planning

| Number - Multiplication and division, including Number and place value <br> Unit 12 Number - Fractions <br> Measurement (time) |  |  |
| :---: | :---: | :---: |
| National Curriculum attainment targets Pupils should be taught to: | Lesson objectives Pupils will be taught to: | Lesson |
| Number - Multiplication and division | Week 1 |  |
| - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs <br> - solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | - Count in steps of 2 and 5 from 0, and in tens from any number, forward and backward | 1 |
|  | - Calculate mathematical statements for multiplication and division within the 2, 5 and 10 multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals ( $=$ ) signs <br> - Solve problems involving multiplication and division, using arrays | 2 |
|  | - Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | 3 |
| Number - Number and place value |  |  |
| - count in steps of 2 and 5 from 0 , and in tens from any number, forward and backward | - Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | 4 |
| Number - Fractions | Week 2 |  |
| - recognise, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity <br> - write simple fractions for example, $\frac{1}{2}$ of $6=3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ | - Compare the relative sizes of fractions <br> - Mark fractions on a number line | 1 |
|  | - Mark fractions on a number line | 2 |
|  | - Recognise and find fractions of a set of objects | 3 |
|  | - Solve problems involving fractions | 4 |
| Measurement (time) | Week 3 |  |
| - compare and sequence intervals of time <br> - 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 <br> - know the number of minutes in an hour and the number of hours in a day | - Tell and write the time to five minutes and draw the hands on a clock face to show these times | 1 |
|  | - Tell and write the time to five minutes and draw the hands on a clock face to show these times | 2 |
|  | - Know the number of minutes in an hour and the number of hours in a day <br> - Compare and sequence intervals of time | 3 |
|  | - Know the number of minutes in an hour <br> - Compare and sequence intervals of time | 4 |

[^4]
[^0]:    * Notes and guidance (non-statutory)

[^1]:    * Notes and guidance (non-statutory)

[^2]:    * Notes and guidance (non-statutory)

[^3]:    * Notes and guidance (non-statutory)

[^4]:    * Notes and guidance (non-statutory)

