

Year 2 – National Curriculum Coverage

Chapter 1 – Counting to 100

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

Chapter 2 – Addition and Subtraction

- Pupils can add numbers using concrete objects, pictorial representations and mentally, including a 2-digit number and ones.
- Add and subtract numbers using concrete objects, pictorial representations and mentally, including a 2-digit number and ones, and a 2-digit number and tens.
- Solve problems with addition using concrete objects and pictorial representations, including those involving numbers, quantities and measures.
- Solve problems with addition applying increasing knowledge of mental and written methods.
- Recall and use addition facts to 20 fluently, and derive and use related facts up to 100.
- Subtract numbers using concrete objects, pictorial representations and mentally, including a 2-digit number and ones.

Chapter 3 – Multiplication of 2, 5 and 10.

- Calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication ($\times$) and equals ($=$) signs.
- Solve problems involving multiplication using materials, arrays, repeated addition, mental methods and multiplication facts, including problems in contexts.
- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables.
- Show that multiplication of two numbers can be done in any order (commutative).

Chapter 4 – Multiplication and Division

- Calculate mathematical statements for division within the multiplication tables and write them using the division ($\div$) and equals ($=$) signs.
- Recall and use division facts for the 2, 5 and 10 multiplication tables.
- Solve problems involving division using materials, arrays, repeated addition, mental methods and division facts, including problems in contexts.
- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.

Chapter 5 - Length

- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers.
- Compare and order lengths.
- Compare and order lengths and record the results using $>$, $<$ and $=$.
- Use appropriate standard units to estimate and measure length/height in any direction.

Chapter 6 – Mass

- Choose and use appropriate standard units to estimate and measure mass (kg, g).
- Choose and use appropriate standard units to estimate and measure mass (kg, g) to the nearest appropriate unit, using scales.
- Compare and order mass and record the results using $>$, $<$ and $=$.
- Compare and order mass.

Chapter 7 - Temperature

- Choose and use appropriate standard units to estimate and measure temperature ($^{\circ}\text{C}$) to the nearest appropriate unit, using thermometers.

Chapter 8 – Picture Graphs

- Interpret and construct simple pictograms.
- Interpret and construct simple pictograms and tally charts.
- Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.
- Interpret and construct simple pictograms, tally charts and tables.
- Ask and answer questions about totalling and comparing categorical data.

Chapter 9 – More Word Problems

- Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures.
- Solve problems with addition and subtraction: applying their increasing knowledge of mental and written methods.
- Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

Chapter 10 - Money

- 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, including giving change.

Chapter 11 – Two-Dimensional Shapes

- Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.
- Compare and sort common 2-D and 3-D shapes and everyday objects.
- 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).

Chapter 12 – Three-Dimensional Shapes

- 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].
- Order and arrange combinations of mathematical objects in patterns and sequences.
- Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.

Chapter 13 – Fractions

- 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.
- To show and identify thirds in shapes; to use the vocabulary 'numerator' and 'denominator' when referring to fractions
- Write simple fractions, for example $\frac{1}{2}$ of 6 = 3, and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.
- Compare and order unit fractions, and fractions with the same denominators.
- Recognise and show, using diagrams, equivalent fractions with small denominators.
- Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

Chapter 14 - 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.
- Compare and sequence intervals of time.
- Know the number of minutes in an hour and the number of hours in a day.

Chapter 15 – Volume

- Choose and use appropriate standard units to estimate and measure capacity (litres/millilitres) to the nearest appropriate unit, using measuring vessels.
- Compare and order volume/capacity and record the results using >, < and =.