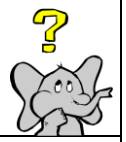
Key Learning Objectives

Using and Applying Mathematics

- I can solve one- and two-step problems involving numbers, money or measures including time, choosing and carrying out appropriate calculations
  e.g. Mary buys a teddy for £1.50 and a doll for 75p how much change would she get from £5.00?
- I can explain how I solved a problem and check that my answer is sensible.
- I can solve puzzles that involve numbers and shapes.



Counting and Understanding Numbers/Knowing and Using Number Facts

- I can order whole numbers to at least 1000
- I can partition numbers into hundreds, tens and units
- I can round numbers to the nearest 10 or 100
- I can read and write proper fractions e.g. $\frac{5}{8}$ five eighths
- I can say what fraction of a shape is shaded
- I can work which fractions are the same by looking at fractions of shapes e.g. $\frac{1}{2}$ is the same as 2/4

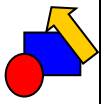
Calculating

- I know all my number facts to 20 e.g. 14+ 6 = 20, 20 – 14 = 6, 20 – 6 = 14
- I know number pairs that make 100
- I can add and subtract combinations of one- and two-digit numbers in my head
- I can add and subtract two- and three-digit numbers using a written method
- I can multiply one- and two-digit numbers by 10 and 100
- I can use practical and informal written methods (like number lines) to multiply and divide two-digit numbers
- I can round remainders up or down, depending on the context
- I know that multiplication and division are inverses (opposites)
- I know off by heart my 2, 3, 4, 5, 6 and 10 times tables and the division facts linked to them e.g. 6 x 5 = 30, 30 ÷ 6 = 5, 30 ÷ 5 = 6
- I can find fractions of numbers and quantities $\frac{1}{2}$ of 16 is 8 and $\frac{1}{4}$ of 16 litres is 4 litres

Measuring

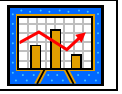
- I know facts about measurement e.g. 100cm = 1m, 1000g = 1 kg
- I can read scales that are numbered and partially numbered
- I can draw lines with a ruler accurately
- I can read the time on a 12-hour digital clock and to the nearest five minutes on an analogue clock
- I can calculate time intervals and find start or end times for a given time interval

Understanding Shape



- I can describe, sort, draw and make 2-D shapes and 3-D solids
- I can draw and complete symmetrical shapes and pictures
- I know the four compass points and can use them to describe movement
- I can identify right angles in 2D- shapes; I know that two right angles for a straight line

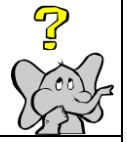
Handling Data



- I can put information in a simple table, list or graph and use this to solve a problem

Ideas for home learning activities

Using and Applying Mathematics



- Solve number puzzles and explain to someone else how it was done. Create puzzles for a younger relative/friend.
- Throw two dice or take two playing cards from a pack. Make up an addition, subtraction, multiplication or division word problem on a particular theme e.g. cooking or shopping or sports. Make up and solve some two-step problems.

Counting and Understanding Numbers/Knowing and Using Number Facts

- Throw three dice or choose three playing cards write down the three-digit number. Say the number. How many hundreds? Tens? Units? Put these numbers in order. Peg them on a washing line.

- Use squared paper to draw, and colour in, different fractions of shapes.
- Cut cakes, pizzas, pies etc into different fractions. Discuss which fractions are the same.

Calculating

- Write numbers on blank playing cards that total 100 e.g. 24 on one card and 76 on another. Colour code them. Place cards face down and turn two over. If they total 100 keep them, if not replace. Who can get the most pairs?

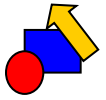
- Practise adding 10 and taking away 1
- Make multiplication table card games. Multiplication table on one card, answer on another. Match them up.
- Using a page in a catalogue that is of interest imagine that there is a sale and everything is half price. Calculate the sale price. This might involve rounding.

Measuring

- Point out the time at different times of the day eg lunch, bedtime. Ask questions such as, 'what time will it be in . ?' or 'how long is it till …?' Issue time challenges e.g. how many times can you throw and catch a ball in 30 seconds?'

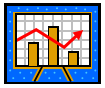
Understanding Shape

- Undo boxes to see how they are constructed. Make boxes for presents.
- Use a mirror to see whether shapes/patterns are symmetrical. How many symmetrical patterns are there in the home/environment? Draw symmetrical patterns using 2-D shapes.



- Use a piece of A4 paper or a post it note to find out whether objects have right angles.
- Create a treasure hunt using compass points.

Handling Data



- Put information in a table e.g. Groups/artists in the charts and their position this week and last week and the difference between them or sporting teams.