

Key Learning Objectives

Using and Applying Mathematics

- I can solve problems involving addition, subtraction, multiplication and division in the context of number, measures or pounds and pence
- I can choose the right operation (addition, subtraction, multiplication, division) or sequence of operations to solve a word problem
- I can explain how I solved a problem and check that my answer makes sense
- I can describe patterns and relationships involving numbers of shapes, make predictions and test them with examples

Counting and Understanding Numbers

- I can read and write two-digit numbers
- I can recognize odd and even numbers
- I can count up to 100 objects by grouping them and counting in tens, fives or twos
- I can order two-digit numbers from lowest to highest and highest to lowest
- I can estimate number of objects
- I can round a number to the nearest 10
- I know my 2, 5 and 10 times-tables
- I can find one-half, one-quarter and three-quarters of shapes and sets of objects

Calculating

- I can add or subtract a single-digit number to or from a two-digit number in my head
- I can add and take away two-digit numbers using practical and informal written methods
- I know that addition and subtraction are inverses (opposites)
- I know what these symbols mean and can write and solve number sentences. +, -, ×, ÷, =
- I can work out the value of an unknown in a number sentence
e.g. $30 - ? = 24$ or $? \div 2 = 6$

Measuring

- I can estimate and measure a length, mass or capacity using standard units and suggest and use suitable equipment for taking such measurements
- I can read measurements from a scale and use a ruler to draw accurate lines

Understanding Shape

- I can name common 2-D shapes and 3-D solids from pictures of them in different positions
- I can draw symmetrical patterns
- I can sort shapes according to their properties e.g. sides with equal length
- I can follow and give instructions involving position, direction and movement
- I can recognize and use whole, half and quarter turns, both clockwise and anti-clockwise; know that a right angle represents a quarter turn

Handling Data

- I can answer questions by recording data in lists and tables and draw a block graph or a pictogram
- I can sort objects against one or two criteria and explain choices e.g. shapes with an even number of sides and straight sides

Ideas for home learning activities

Using and Applying Mathematics

- Create a toy shop or a supermarket. Make up the prices and some shopping lists. Can they work out the total costs? What change would they receive from different amounts? Involve multi-buys. Ask questions such as if a bag of 5 apples costs 25p how much would each apple cost?
- Create shape patterns and number patterns. Challenge child to continue the pattern and explain what they have done and why.

Counting and Understanding Numbers

- Write random two-digit numbers on blank playing cards. Turn them face down. Time how quickly they can put them in order. Can they beat their time?
- Add up house numbers. Can they find two house numbers where the units are 3, 4, 5 etc.
- Collect a quantity of objects such as buttons or shells. Ask the child to estimate the number and then count by grouping.
- Learn 2x, 5x and 10x tables. Count aloud. Write question and answer on different cards and pair them up. Focus on speed and accuracy.
- Draw around shapes and colour in a half, a quarter and three-quarters. How many different ways are there of colouring in a half?

Calculating

- Use playing cards. Deal out 5. How quickly can they add them? What strategies help? (Pairing those that make 10) Deal out 10 etc. Can they beat the adults?

Measuring

- Estimate measurements. Draw a picture accurately with a ruler e.g. draw a square where the sides are 6cm and then one inside that is half the size.
- Estimate and weigh a selection of toys
- Estimate and measure the capacity of different containers

Understanding Shape

- Take pictures of or draw shapes in the environment. Take pictures or draw shapes from different angles. Can they name the shapes? Are arrows all the same shape?
- Draw up a table and then go on a shape hunt around the house. How many triangles, circles, squares can they find? How many cubes, cuboids, spheres can they find?
- Draw symmetrical patterns using shapes. Draw one side and ask someone else to complete the picture.
- Give instructions for a child to follow to find a particular object. Blindfold them to make it more difficult. Ask the child to give instructions to someone else to retrieve a particular object or reach a particular destination.

Handling Data

- Conduct a survey, e.g. favourite sandwich fillings. Draw a graph.
- Sort a collection of buttons according to colour and shape.

