

Key Learning Objectives

Counting and Understanding Numbers

- Count on and back from any small number, in ones, twos, fives and tens
- Read, write and order numbers from 0 to at least 20 in numbers and words
- Say one more or one less than any number
- Understand the words: add, altogether, total, take away, difference, equal to
- Know pairs of numbers that add or subtract to make a number up to 20
- Solve problems involving addition and subtraction
- Solve missing number problems e.g $9 - ? = 7$
- Know the doubles of all numbers up to at least 10
- Know the halves of all even numbers up to 20
- Know what a half and a quarter is.
- Find one half or one quarter of a shape, object or quantity
- Know the mathematical signs for addition and subtraction and write down number sentences
- Add or subtract one digit and two digit numbers to 20 mentally
- Solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups.

Measurement

- Compare, describe and solve practical problems for:
 - Lengths and heights (long/short, longer/shorter, tall/short, double/half)
 - Mass/weights (heavy/light, heavier than/lighter than)
 - Capacity and volume (full/empty, more than/less than, half, quarter)
 - Time (quicker, slower, earlier, later)
- Recognise and know the value of coins and notes
- Know and order the days of the week and the months of the year
- Read the time to the hour and half hour

Geometry

- Name and describe the features of common 2D and 3D shapes e.g. a triangle has 3 sides
- Describe position, direction and movement including half, quarter and three quarter turns
- Use and understand the language: left/right, top/middle/bottom, inside/outside, forwards/backwards, up/down, close/far/near, above/between/around

Ideas for home learning activities

Counting and Understanding Numbers

- Take opportunities for counting around the house. Encourage child to estimate first and then check by counting. Count large amounts of objects by grouping them into 2s, 5s or 10s.
- Cut cakes, sandwiches and fruit into halves and quarters.
- Take opportunities for adding and taking away in the home e.g. laying the table, 'how many more knives do we need if nanny and granddad come to dinner?'
- Use a pack of playing cards to find pairs of cards that total 10. Write down the relevant number sentences. How many different ways are there of making 10? Can more cards be used?
- Count pairs of socks (counting in twos), count fingers on hands and toes (counting in fives), count fingers on hands (and or feet) for a group of people (counting in tens).
- Sort socks, gloves, shoes etc. into pairs. Share buttons, shells, sweets etc. into equal groups of 2, 5 and 10.
- Choose a number up to 20. The other player has to ask questions to work out what the number is, e.g. is it more than 10? Is it odd?
- Play dice games- Throw two dice- what is the difference between the numbers? Can you add them together?

Measurement

- Estimate and measure distances in standard measures like centimetres. Estimate how many apples weigh the same as a bag of flour. Weigh accurately. Estimate how many cups of water would fill a bowl. Test.
- Write the names of the days of the week and the months of the year on cards and ask the child to arrange them in order. Link the days to things that mean something to the child e.g. go swimming, gym club and the months to special family events like birthdays. Show these on a calendar.

Geometry

- Look for and identify different shapes around the house and in the environment. Ask how they know it is a triangle or a square or a cube etc. Make up shape games. How quickly can they find 5 triangles in a particular room?