

Key Learning Objectives

Using and Applying Mathematics

- I can use the maths I know to solve simple problems involving counting, adding, subtracting, doubling or halving in the context of numbers, measures or money, explaining what I have done and why
- Recognise the value of different coins
- Describe simple patterns and relationships involving numbers and shapes

Counting and Understanding Numbers

- I can count on and back from any small number, in ones, twos, fives and tens
- I can count at least 20 everyday objects
- I can read, write and order numbers from 0 to at least 20
- I can estimate how many objects there are and then check by counting
- I can say the number that is one more or less than any given number, and ten more or less than a multiple of ten
- I know my number bonds to 10 e.g. $6 + 4$, $3 + 7$, $8 + 2$ etc.
- I know the doubles of all numbers up to at least 10
- I know what a half and a quarter is.

Calculating

- I can use words linked to adding and taking away in everyday situations
- I understand that subtraction is both 'taking away' and 'difference'
- I know the mathematical signs for addition and subtraction and can write down number sentences
- I can add a one-digit number or a multiple of 10 to a one-digit or two-digit number in my head
- I can solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups.

Measuring

- I can estimate, measure, weigh and compare objects, choosing and using suitable measuring instruments
- I know and can order the days of the week and the months of the year
- I can read the time to the hour and half hour

Understanding Shape

- I can describe the features of common 2D (flat) and 3D (solid) shapes e.g. a triangle has 3 sides

Handling Data

- I can answer a question about information in a list or a table.
- I can draw pictures or use objects to show the outcome of a survey
- I can sort objects according to a given criterion e.g. red, not red

Ideas for home learning activities

Using and Applying Mathematics

- Use buttons, shells, toys etc. to make up number problems e.g. how many shells will I have if I add 3 shells and 2 shells? Or how many shells will I have if I start with 5 and take 2 away? Ask child to talk about what they are doing. Encourage them to use mathematical language.
- Play shops.
- Create patterns with shapes and ask the child to describe them.
- Create number patterns with magnetic numbers, can the child explain what the pattern is and perhaps continue the pattern.

Counting and Understanding Numbers

- Exploit opportunities for counting around the house. Putting jigsaws away count the pieces. Count how many pieces of fruit there are in the fruit bowl etc. Encourage child to estimate first and then check by counting.
- Cut cakes, sandwiches and fruit into halves and quarters.

Calculating

- Exploit 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.

Measuring

- Estimate and measure distances in non-standard measures like pigeon steps and hand spans. 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.

Understanding Shape

- 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?

Handling Data

- Make up a simple shopping list. Ask questions about it.
- Invite the child to ask people what their favourite fruit is and use stickers, draw pictures or plastic fruit to display the results.

