

# Year 2

## Maths Standards

### Mathematics

#### Working towards the Expected Standard

Read and write numbers in numerals up to 100

Partition a two-digit number into tens and ones to demonstrate an understanding of place value

Add and subtract two-digit numbers and ones, and two-digit numbers and tens, where no regrouping is required, explaining their method verbally, in pictures or using apparatus (e.g.  $23 + 5$ ;  $46 + 20$ ;  $16 - 5$ ;  $88 - 30$ )

Recall at least four of the six (0+10, 1+9, 2+8, 3+7, 4+6, 5+5) number bonds for 10 and reason about associated facts (e.g.  $6 + 4 = 10$ , therefore  $4 + 6 = 10$  and  $10 - 6 = 4$ )

Count in twos, fives and tens from 0 and use this to solve problems

Know the value of different coins

Name some common 2-D and 3-D shapes from a group of shapes or from pictures of the shapes and describe some of their properties (e.g. triangles, rectangles, squares, circles, cuboids, cubes, pyramids and spheres).

#### Working at the Expected Standard

Read scales in divisions of ones, twos, fives and tens

Partition any two-digit number into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus

Add and subtract any 2 two-digit numbers using an efficient strategy, explaining their method verbally, in pictures or using apparatus (e.g.  $48 + 35$ ;  $72 - 17$ )

Recall all number bonds to and within 10 and use these to reason with and calculate bonds to and within 20, recognising other associated additive relationships (e.g. If  $7 + 3 = 10$ , then  $17 + 3 = 20$ ; if  $7 - 3 = 4$ , then  $17 - 3 = 14$ ; leading to if  $14 + 3 = 17$ , then  $3 + 14 = 17$ ,  $17 - 14 = 3$  and  $17 - 3 = 14$ )

Recall multiplication and division facts for 2, 5 and 10 and use them to solve simple problems, demonstrating an understanding of commutativity as necessary

Identify  $1/4$ ,  $1/3$ ,  $1/2$ ,  $2/4$ ,  $3/4$ , of a number or shape, and know that all parts must be equal parts of the whole

Use different coins to make the same amount

Read the time on a clock to the nearest 15 minutes

Name and describe properties of 2-D and 3-D shapes, including number of sides, vertices, edges, faces and lines of symmetry.

#### Working at Greater Depth

Read scales where not all numbers on the scale are given and estimate points in between

Recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts

Use reasoning about numbers and relationships to solve more complex problems and explain their thinking (e.g.  $29 + 17 = 15 + 4 + \square$  'together Jack and Sam have £14. Jack has £2 more than Sam. How much money does Sam have?' etc.)

Solve unfamiliar word problems that involve more than one step (e.g. 'which has the most biscuits, 4 packets of biscuits with 5 in each packet or 3 packets of biscuits with 10 in each packet?')

Read the time on a clock to the nearest 5 minutes

Describe similarities and differences of 2-D and 3-D shapes, using their properties (e.g. that two different 2-D shapes both have only one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices, but different dimensions).