



# Maths in Year 1

## Mental calculation strategies

The ability to calculate in your head is an important part of maths and an important part of coping with everyday life! Children are taught to learn number facts by heart and use known facts to work out facts they cannot recall rapidly.

**We want our children to be able to:**

Recall rapidly all pairs of numbers with a total of 10 e.g.  $7+3$

Recall rapidly addition and subtraction facts to 10

Recall rapidly addition doubles of all numbers up to 6 e.g.  $4+4$ ,  $5+5$

Begin to recall rapidly all pairs of multiples of 10 with a total of 100

Count in 2s, 5s and 10s

Begin to know all pairs of numbers with a total of 20 e.g.

**We teach children to:**

Count on and back in ones, always putting the biggest number first when adding e.g.  $8+4$ ,  $3+15$

Reorder numbers when adding to find pairs that make 10 e.g.  $6+4+5$

Using near doubles e.g.  $5+6$ .... Add  $6+6$  and then take one away

Know their addition and subtraction facts to 10 off by heart

## Written Calculation Strategies

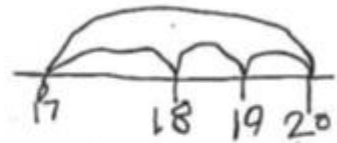
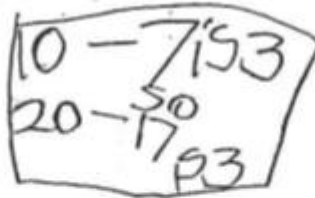
Addition and Subtraction—we teach children to use written notes, pictures etc to aid their mental calculation strategies. We encourage children to:

- Use their own individual means of recording. Many children use pictures, words and symbols. Different methods are often used by different children for the same calculation and this can lead to some useful discussion e.g.



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*There are 20 children in our class. Three are away today. How many are here?*



2 away would be 18  
so 3 away must  
be 17.

|||||  
 $20 - 3 = 17$

- Use a number track and number line e.g.

1	2	3	4	5	6
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Use the track to add  $2+3$ . Children would start at 3 and count on 2 to get the answer of 5

- Using coins
- Using beadstrings

## Key learning in Year 1

### Number:

- ✓ I can count reliably to 100.
- ✓ I can count on and back in 1s, 2s, 5s and 10s from any given number up to 100.
- ✓ I can write all numbers in words to 20.
- ✓ I can say the number that is one more or one less than a number to 100.
- ✓ I can recall all pairs of addition and subtraction number bonds to 20.
- ✓ I can add and subtract 1-digit and 2-digit numbers to 20, including zero.
- ✓ I know the signs  $+$   $-$   $=$ .



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- ✓ I can solve a missing number problem.
- ✓ I can solve a one-step problem using addition and subtraction, using concrete objects and pictorial representations.

## **Measurement and Geometry:**

- ✓ I recognise all coins.
  - ✓ I recognise and can name the 2D shapes: circle, triangle, square and rectangle.
  - ✓ I recognise and can name the 3D shapes: cuboid, pyramid, sphere.
  - ✓ I can name the days of the week and months of the year.
  - ✓ I can tell the time to o'clock and half past the hour.
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