'Learning by Heart'

Developing children's knowledge of mathematical facts so that they know them 'by heart' is a valuable tool to support calculation strategies, and also helps to build confidence. Regular practice is needed to secure knowledge and help children instantly recall facts.

We encourage children to think 'Can I do this in my head?' Having a range of number facts at their fingertips really empowers the children and enables them to approach tasks with confidence.

Year 2 Autumn Term 1: Know number bonds to 20.

Number bonds to 20

1 + 19	19 + 1
2 + 18	18 + 2
3 + 17	17 + 3
4 + 16	16 + 4
5 + 15	15 + 5
6 + 14	14 + 6
7 + 13	13 + 7
8 + 12	12 + 8
9 + 11	11 + 9
10 + 10	10 + 10

4 + 16 = 20

Practical ideas to help your child

Chanting is still an effective way to learn multiplication tables. Musical YouTube videos, such as the one on the QR code below, are very effective – children often learn the 'rhythm and rhyme' of a song quite quickly and therefore learn to recite and recall the facts.

Children can build numbers to 20 by using objects at home. Any building toys, such as blocks or Lego, are useful. Try giving your child a number of objects and ask them to build the number 20 by counting how many more objects need to be added.
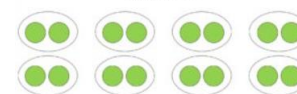
Vocabulary

add   plus   equals   number   bond   number sentence   number facts
                   total   pairs   altogether make

Autumn Term 2: Know multiplication and division facts for x2 table

0 x 2 = 0	2 ÷ 2 = 1
1 x 2 = 2	4 ÷ 2 = 2
2 x 2 = 4	6 ÷ 2 = 3
3 x 2 = 6	8 ÷ 2 = 4
4 x 2 = 8	10 ÷ 2 = 5
5 x 2 = 10	12 ÷ 2 = 6
6 x 2 = 12	14 ÷ 2 = 7
7 x 2 = 14	16 ÷ 2 = 8
8 x 2 = 16	18 ÷ 2 = 9
9 x 2 = 18	20 ÷ 2 = 10
10 x 2 = 20	22 ÷ 2 = 11
11 x 2 = 22	24 ÷ 2 = 12
12 x 2 = 24	

8 x 2 =

Practical ideas to help your child

Chanting is still an effective way to learn multiplication tables. Musical times tables tapes are also quite useful – children often learn the 'rhythm and rhyme' of a song quite quickly and therefore learn to recite and recall the facts.

Grouping things in twos is an effective way for your child to recite the x2 table. Group snacks, toys or objects in twos and encourage your child to recite the correct number sentence using the vocabulary below.

It is important that children are as confident with division facts as they are with multiplication facts.

Practice the idea of 'Family of facts' e.g.
        if I know that 4 x 2 = 8..... I also know 2 x 4 = 8
            that 8 ÷ 2 = 4 and that 8 ÷ 4 = 2

Vocabulary
                    times   multiply   multiple of
            lots of   groups of   divided by   shared

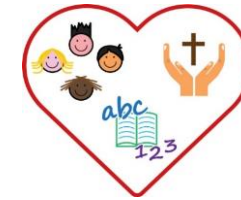Great computer programs:
Times table rock star

www.multiplication.com

https://www.topmarks.co.uk/maths-games/hit-the-button

www.mathszone.co.uk has lots of links to interactive games e.g., 'hit the button' – multiplication, division facts, number bonds to select

https://www.studyzone.tv/game275-code13fe7c386fa4ad7bb0ecdf05c8cec747
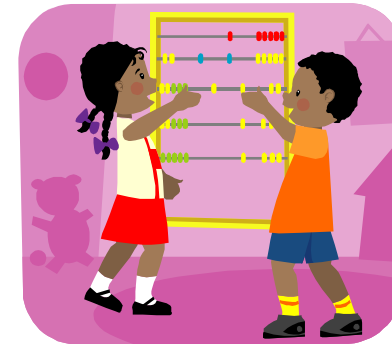
St Matthew's C.E. School and Nursery

Help your child to learn maths facts Year 2

Parent's and carer's guide to supporting their children with the 'Learning by Heart' programme
Autumn 2021