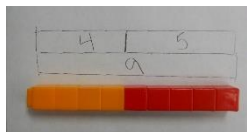
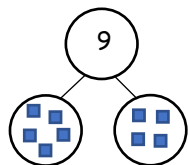


Maths: Calculations in Year 1.

Addition and Subtraction

Children use objects and pictures to solve addition problems within 20 and record in **number sentences**, using the + symbol. **Part-whole models** and **bar models** help children to understand number bonds and addition.



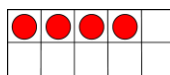
9	
5	4

$$5 + 4 = 9$$

They look at addition **fact families** (e.g. $3+2=5$, $2+3=5$, $5=3+2$, $5=2+3$) and explore **number bonds**, initially within 10 and later within 20.

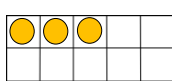
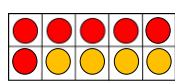


$$1 + \underline{\quad} = 10$$



$$4 + \underline{\quad} = 10$$

Children explore addition by **counting on** (sometimes using a number-line). They learn to add by making 10 and **partitioning numbers**.



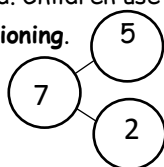
$$6 + 7 =$$

$$10 + 3 = 13$$

'**Taking away**' is introduced in real life contexts, such as flying away and eating. Once the children understand the concept of 'taking away', the - symbol is introduced. Children use objects and pictures to solve 'take away' subtraction problems before moving on to subtraction by **partitioning**.



$$7 - 2 = 5$$



7	
5	2

$$7 - 2 = 5 \quad 5 = 7 - 2$$

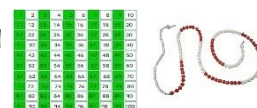
$$7 - 5 = 2 \quad 2 = 7 - 5$$

Children will learn to subtract by '**counting back**' (sometimes using a number-line). When they learn to subtract crossing 10, they **partition numbers** to help them.

Children will begin to **link addition and subtraction facts**. They will explore addition and subtraction **fact families** for numbers within 20, using objects and pictures to help them.

Multiplication and Division

In Year 1, children focus on **multiples of 2, 5 and 10**. They will count in 10s on a hundred square and use objects and pictures to **count forwards and backwards in 10s**.



Children will **identify and make equal groups** using pictures and objects.

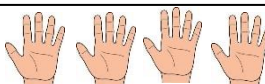


There are 3 groups of 4 pencils.

How many equal groups of 3 can you make?

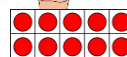


They will begin to **add equal groups**, focusing on groups of 2, 5 and 10.



$$5+5+5+5=20$$

Children make **arrays** by making equal groups and building them up in columns and rows.



$$2+2+2+2+2=10$$

Children explore division through **sharing**. They use objects and share them into equal groups.



6 cookies shared between 2 is 3.

What can you do at home?

Many parents ask this question: here are a few ideas! Practise counting on and back in 1s, 2s, 5s and 10s. Help your child learn number doubles up to 20 (e.g. $2+2=4$) and number bonds (pairs) to 10 (e.g. $7+3=10$). Play maths games to build skills in a fun and interactive way (ideas and resources will be given out at the Maths 'Stay and Play' session on 27th November).

There are also many interactive games online. Many are tablet friendly. Here are a few recommended websites:

<http://www.topmarks.co.uk/Interactive.aspx?cat=8>
<https://www.ictgames.com/mobilePage/index.html>

<http://www.snappymaths.com/year1/>