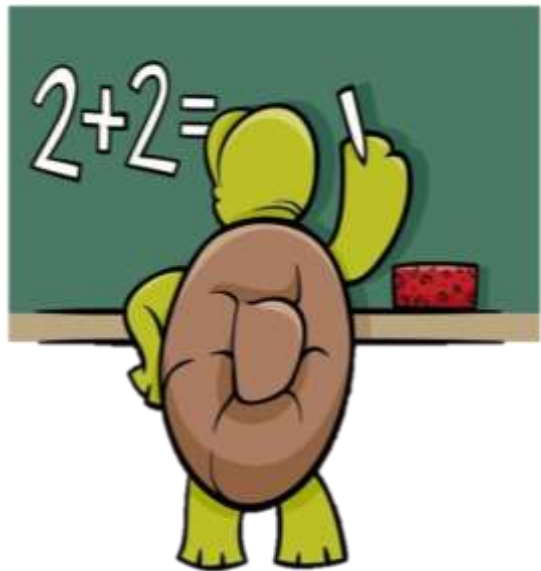# ADDITION and SUBTRACTION (to 10) KNOWLEDGE ORGANISER

Overview
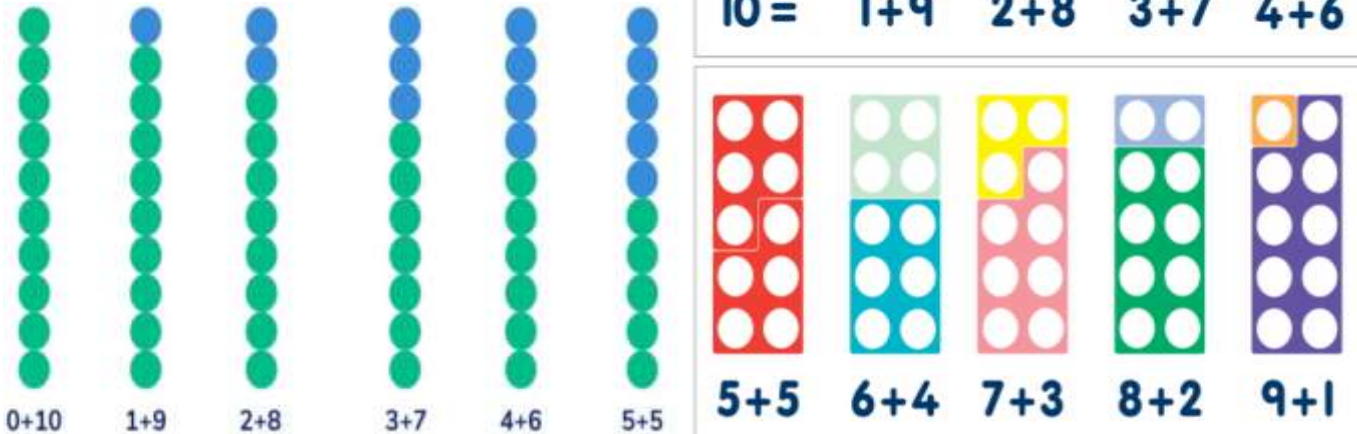
Addition and Subtraction we learn:

-Part Whole Model   -Addition Symbol

-Fact Families   -Number Bonds to 10

-Compare Number Bonds   -Add Together/ More

-Finding A Part   -Subtract   -How Many Left?

-Fact Families   -Subtract – Finding the Difference

Addition and Subtraction is useful learning because it is used in many areas of everyday life – e.g. shopping, cooking, or playing games. It also forms the basis for lots of other maths ideas.

Number Bonds

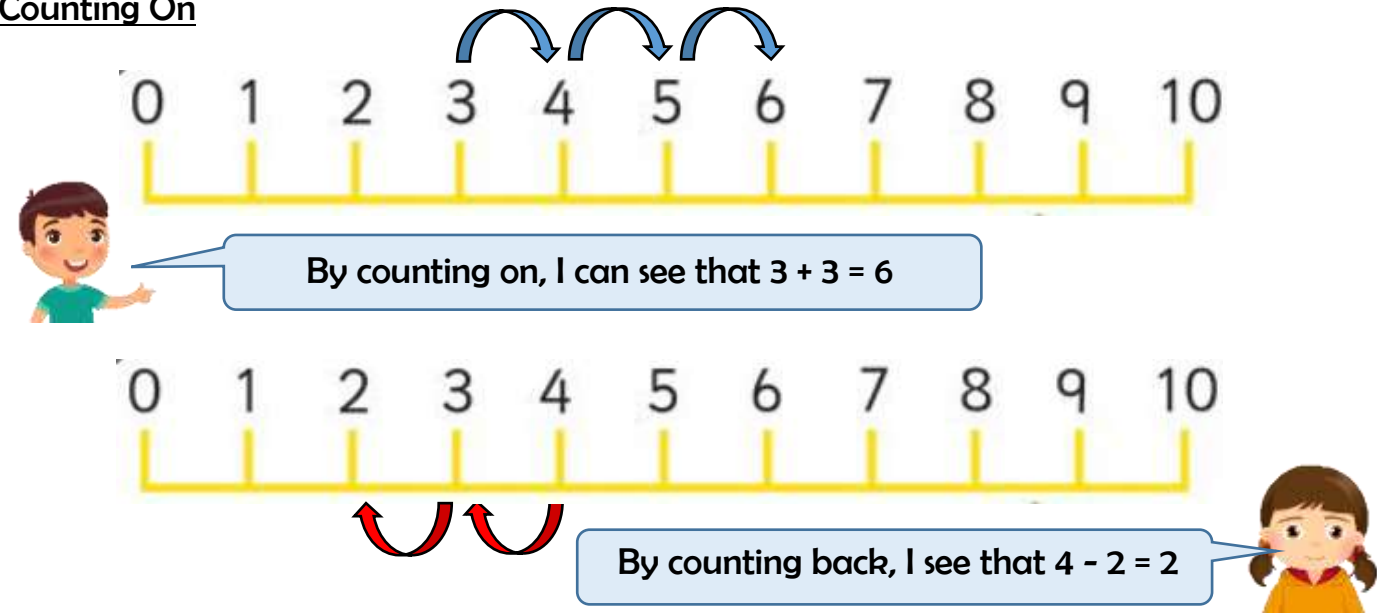Number bonds are pairs of numbers that can be added to make another number.

-We should learn number bonds up to 10.

-The images here show the number bonds to make 10.

0+10   1+9   2+8   3+7   4+6   5+5

$10 = 1+9 \quad 2+8 \quad 3+7 \quad 4+6$

$5+5 \quad 6+4 \quad 7+3 \quad 8+2 \quad 9+1$

Counting On/ Counting Back

Number lines can be used to help us count on/ count back when adding or subtracting.

Counting On

0 1 2 3 4 5 6 7 8 9 10

By counting on, I can see that $3 + 3 = 6$
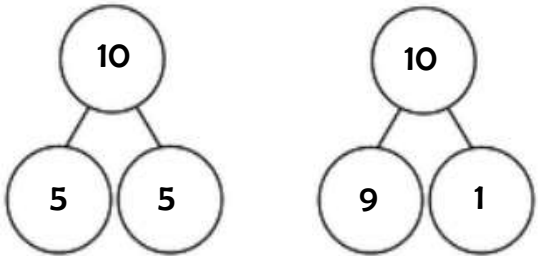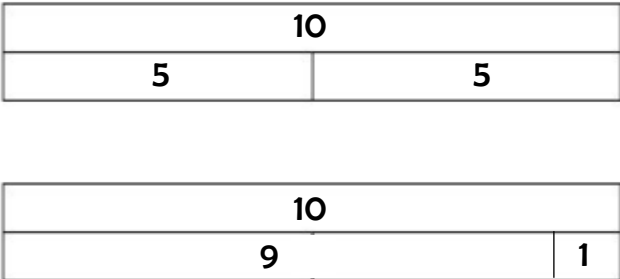
0 1 2 3 4 5 6 7 8 9 10

By counting back, I see that $4 - 2 = 2$

Part-Whole Models/ Bar Models

Part-Whole Models and Bar Models are two further ways to show number bonds.

Part-Whole Models

10
5 5

10
9 1

Bar Models

10	
5	5

10	
9	1

Key Vocabulary

Number	Count	Add	Subtract	Take Away	Difference	Plus	Number Line	Number Bond