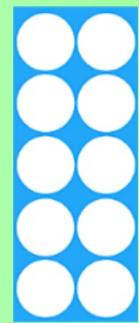
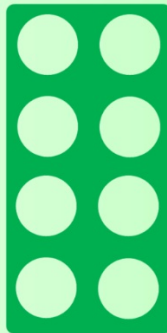
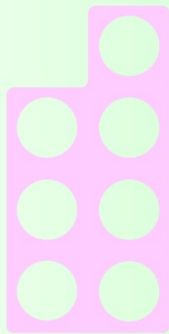
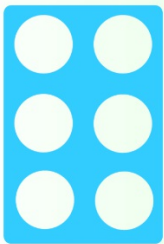
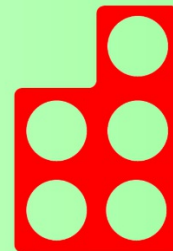
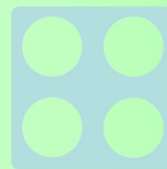
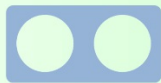


Look at all the Numicon pieces.
How many number bonds to 5 can we make with them?

Engage



Key Learning: to know number bonds within 10

Success Criteria:

I understand what a number bond is.

I know what a whole and a part is.

I can split a whole into two parts in different ways to find number bonds within 10

I can record number bonds within 10 using a bar model and addition equations.



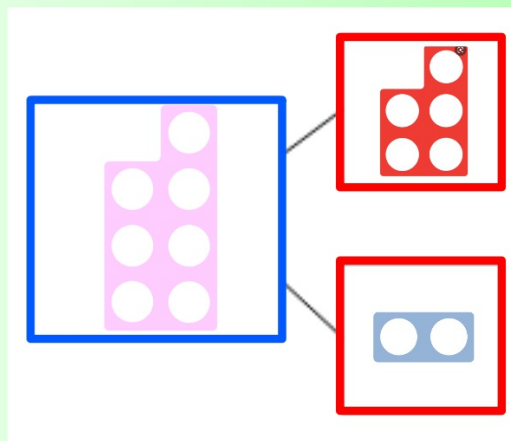
whole part equal to number bond
commutative systematic sum



What does number bond mean?

Let's
Recap

Number bonds are pairs of numbers that make a whole. They will always make the same whole. They are addition equations.



What number bond is being shown here?

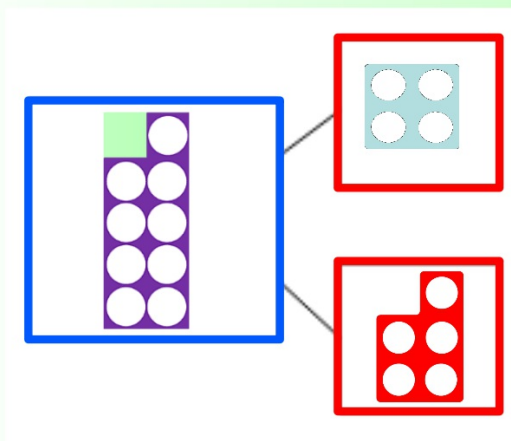
Here we can see the parts of 5 and 2 making the whole of 7.



What does **commutative** mean?

Let's
Recap

Commutative means we can swap the parts around to make a new number bond and a new sum (addition equation).



What two sums can we write for this number bond?

$$4 + 5 = 9$$

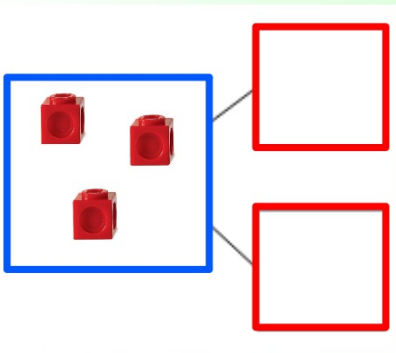
$$5 + 4 = 9$$



Practise

If 3 is my whole, what could my parts be?

How can I work **systematically**?



3	

3	

3	

3	



Now it's your turn...

Partner A: Choose a number from 1-9.

Use the number cards and cubes on your table to find all the number bonds to a number between 1-9.

Partner B: Record all the number bonds on your laminated bar models.

SWAP!

3	
0	3

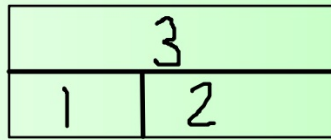
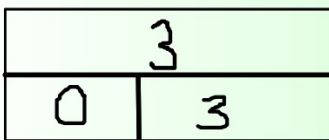
3	
1	2

3	
2	1

3	
3	0

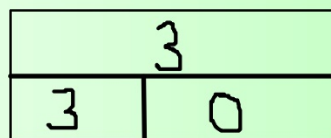
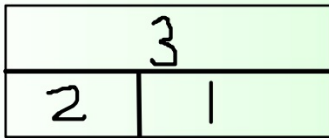


What sums (addition equations) can I identify from my bar models?



+ =

+ =



+ =

+ =



Number bonds are **commutative!**

Now it's your turn

Choose a number card. Write the number (whole).

Underneath it, write all the number bonds to that whole.

2

$$0 + 2 = 2$$

$$1 + 1 = 2$$

$$2 + 0 = 2$$

6

$$0 + 6 = 6$$

$$1 + 5 = 6$$

$$2 + 4 = 6$$

Deepening

If I know... then I know...

If I know $3 + 2 = 5$ and $2 + 3 = 5$.



What subtraction equations do I also know?

$$5 - 3 = 2 \text{ and } 5 - 2 = 3$$

If I know... then I know...

Deepening

Deepening

What subtraction equations can you identify from these number bonds?

1. $4 + 2 = 6$

2. $6 + 1 = 7$

3. $3 + 6 = 9$

$2 + 4 = 6$

$1 + 6 = 7$

$6 + 3 = 9$

Write the subtraction equations into your book:

