Maths - Year 1

Calculating 4: Exploring adding and subtracting facts to 10

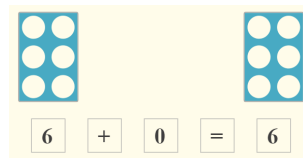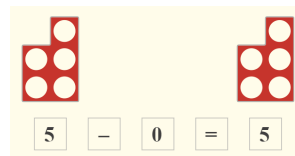| Key Vocabulary	
Combine	To join together.
Add	Combine two or more amounts or numbers to make a total.
Plus	Add. Also a symbol for add (+).
Total	The whole amount of numbers or objects combined.
Pattern	A set of ordered numbers, shapes or objects.
Subtract/ take away	Taking one thing away for another, decreasing the size of something, or finding the difference between two numbers.
Minus	Take away/subtract. Also a symbol for subtract (-).

Mathematical Skills

- Understand what happens when zero is added or subtracted.
- Recognise when it is important to be well-organised and to work systematically, e.g. those who show adding facts in order, with or without structured apparatus.
- Begin to have fluent recall of adding and subtracting facts to 10 and know when to use these to help when adding and subtracting.
- Have fluent recall of doubles totalling no more than 10 and use them to help when adding and subtracting adjacent numbers.
- Begin to recognise that there is a relationships between adding and subtracting facts that can be helpful when solving mathematical problems.
- Know that there needs to be the same value on both 'sides' of the '=' symbol if a number sentence is correct.
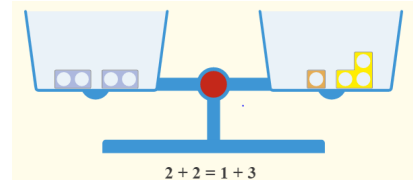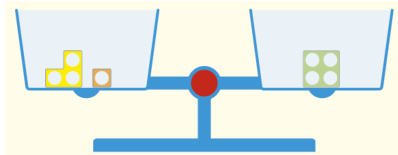
Mathematical Methods

- Adding with zero e.g. On Monday 6 children came to play and no other children arrived. How can we represent this as a number sentence?

$$6 + 0 = 6$$

- Subtracting with zero e.g. when Tom was bowling there were 10 pins altogether. On his first turn, he knocked down 5 pins. On his second turn he didn't knock down any. How can we represent this as a number sentence?
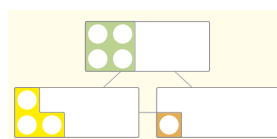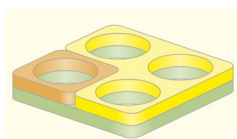

$$5 - 0 = 5$$

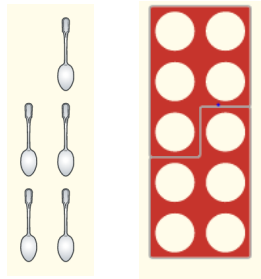- Exploring 4 - finding adding facts using the Numicon Pan Balance.

$$2 + 2 = 1 + 3$$

- Exploring 4—finding subtracting facts.

- Exploring 4—parts and wholes e.g. 4 is the whole, what could the parts be (2 + 2, 1 + 3)
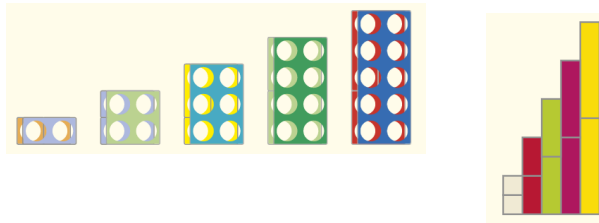
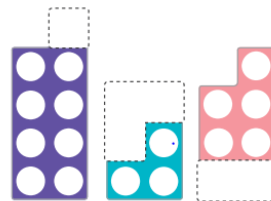- Finding adding and subtracting facts by exploring 5, 6, 7, 8, 9 and 10.

- Double the amount.

- Relationships between adjacent numbers through exploring doubles.

Can you..?

- Find the difference between 10 and 6.

- Make number sentences for these Numicon shapes.

- Can you find three different ways to make 9p? Use the Numicon shapes to help you.