



Social



Communication



Interaction



Learning

20-20 Maths

Addition and Subtraction

Addition – The addition concept needs to be introduced alongside number concepts and number bonds.

- Develop the understanding that addition is combining two or more groups of objects/numbers to make a total.
- Introduce the concept that the answer (total) is always bigger / more than the numbers in the question.
- Show the pupil the sign for addition and equals – discuss the vocabulary for both
- Explore how number sentences are made. Make physical examples of addition sentences using objects alongside numbers and the symbols.
- Explore the commutative concept within addition – it doesn't matter which way the numbers are, the answer is the same i.e. $3 + 2 = 5$ as does $2 + 3$. A coat hanger and pegs can be useful to illustrate this. Place on the target number of pegs arranged into two groups – turn the coat hanger over to show it doesn't matter which way they go – the answer is the same.
- Make pages in their book for addition and equals if appropriate.

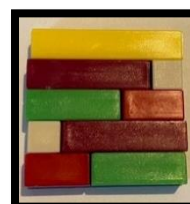


Subtraction - The subtraction concept needs to be introduced alongside number bonds when introducing the inverse relationship.

- Develop the understanding that subtraction is taking away one quantity from another.
- Introduce the concept that the answer (total) is always smaller when we take away.
- Show the pupil the sign for subtraction – discuss the vocabulary.
- Explore how number sentences are made. Make physical examples of subtraction sentences using objects and numbers and the symbols.
- Make pages for the book for subtraction if appropriate.

Inverse Relationship

- Start with dot patterns using two coloured counters – this should be part of exploring number bonds.
- For example, for number 5 we can show with the two-coloured counters that 5 is a two and a three. We can then start thinking about how this can be shown in number sentences. Start with addition and then create the subtraction number sentence i.e. $3 + 2 = 5$ and $5 - 2 = 3$. Move the counters to show this physically.
- This can also be done using numicon and Cuisenaire rods. Always write the number sentence under the physical representation.
- Add the number bond subtraction facts to the number page.



Games

- Symbol Recognition pairs or snap – supplied
- Subtraction Smash – board supplied
- Roll and Race Game – supplied – editable for any skill
- Domino addition/subtraction – players take turns selecting a domino and adding the two numbers together / subtracting the smaller number from the largest. Allow the use of concrete objects to support. If correct keep the domino – the player who is the first to get a target number wins.