



Social



Communication



Interaction



Learning

Small Group Maths Intervention

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.
- Use an adding machine to consolidate that the total is how many altogether – see photo below.
- Show the pupils the sign for addition and equals – discuss the vocabulary for both concepts.
- 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 posters for addition and equals as a group.



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 a poster for subtraction with the group.

Inverse Relationship

- Link the subtraction facts to addition facts i.e. $3 + 2 = 5$ so $5 - 2 = 3$ and $5 - 3 = 2$.
- Use dot patterns and two-coloured counters to illustrate this concept. Link to each number bond covered. 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 /or 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.