Dr Fog Presents

Adding several small numbers

Year 3 (National Numeracy Strategy)
(Based on DFEE Sample Lessons)
Resources

• 0 - 30 number line
• Sheets of plain paper for each child.
• Four 0 - 9 dice
• 0 - 9 Number Cards
• Number fan for each child.
Mental Learning Objective

• I can show instant recall of my number bonds up to 20.
Mental Learning Task

- Today we are going to practise our number bonds for 15.
- I am going to give you a number.
- Use your number fans to show the number I need to add to it to make 15.
Mental Learning Task

• What do I need to add to this number to make it equal 15?
Mental Learning Task

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Mental Learning Objective

- I can show instant recall of my number bonds up to 20.
Main Learning Objective

• I can look for pairs or trios which make 10.

• When I add, I start with the largest number.

• I look for doubles.
Key idea

You can add efficiently by looking for pairs or trios which add to 10, start with the largest number, look for doubles.
Main Learning Task

• Today the class is going to learn a useful trick to help when adding several small numbers together.
Main Learning Task

- Could four or five children suggest a single-digit number and write these in the box on the board.
Main Learning Task

• Spend a few minutes adding those numbers in your head.
• I won’t ask you for the answer.
• I will ask how you did it.
Main Learning Task

- Did you look for pairs or trios (threes) that add up to 10?
- It helps make adding easy.
Main Learning Task

- Look again at the numbers. Do any add up to 10?
Main Learning Task

• To help you add more, cross out the numbers you have already used.
• Write the answers at the bottom of the box.
Main Learning Task

- Now add the tens and any spare numbers.
Main Learning Task

- We are now going to play a game of lotto.
- Make sure you have each got a piece of A4 paper.
Main Learning Task

• Fold your piece of paper in half.

• Fold it in half again.

• Fold it in half again.

• Unfold it.
Main Learning Task

• You now have 8 squares on a piece of paper.

• Fill in each box with a number less than 36.
Main Learning Task

- These 8 numbers are your 'lotto' numbers.
Main Learning Task

• Your teacher will throw four 0 - 9 dice, read out the numbers and record them in the table below.

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Main Learning Task

• You now have to add up the four numbers.

• When a total matches one of your ‘lotto’ numbers, you can cross it on on your piece of paper.
Main Learning Task

• Don’t forget to look for ways to add to 10.

• The winner is the first to cross out all his or her numbers.
Main Learning Task

• Don’t forget to look for doubles.

• Remember to start with the largest number and add on the smaller numbers.
Main Learning Objective

• I can look for pairs or trios which make 10.

• When I add, I start with the largest number.

• I look for doubles.
Plenary

• We shall finish with the ‘chain calculation’ game.

• Your teacher will shuffle a set of 0 – 9 cards.

• They will turn it over one by one.

• Add together the 5 numbers they tell you.
Plenary

• After 5 numbers...

• Tell the person next to you the final answer.

• How did you find the activity?
Review of Key Idea

- You can add several small numbers efficiently by
  - looking for pairs or trios which add to 10
  - start with the largest number
  - look for doubles.

- Did you learn that this lesson?
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