

*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?

10



# Mental Learning Task

- What do I need to add to this number to make it equal 15?



# Mental Learning Task

- What do I need to add to this number to make it equal 15?

11



# Mental Learning Task

- What do I need to add to this number to make it equal 15?

3





# Mental Learning Task

- What do I need to add to this number to make it equal 15?

8



# Mental Learning Task

- What do I need to add to this number to make it equal 15?



# 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.

Number  
Box



# 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.

Number  
Box





# Main Learning Task

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

Number  
Box



# Main Learning Task

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

Number  
Box



# 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.

Number  
Box



# Main Learning Task

- Now add the tens and any spare numbers.

Number  
Box



# 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.




# 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?





# Where Can I Find More Resources Like This?

- You can now visit my teaching resource website at <http://www.DrFog.co.uk>
- You can [click here](#) to search for more of my teaching resources.
- [Click here](#) to visit my TES shop!

