

Dr Fog Presents

**Solving
counting
problems**

Reception (National Numeracy Strategy)
(Based on DFEE Sample Lessons)



Resources

- Wooden or plastic numerals
- Tray of beads, buttons, small toys, 'jewels'...
- Pots
- Dice showing 0, 1, 2, 2, 3, 3
- Counting materials in a box



Mental Learning Objective

- I can identify numbers
- I can put numbers into order.



Mental Learning Task

- I will show you different numbers.
- You must put up the right number of fingers.



Mental Learning Task

- Show me this number on your fingers.



Mental Learning Task

- Show me this number on your fingers.



Mental Learning Task

- Show me this number on your fingers.

9



Mental Learning Task

- Show me this number on your fingers.



Mental Learning Task

- Show me this number on your fingers.

10



Mental Learning Task

- Now you are all wonderful at counting...
- I am going to show you a number, show me a bigger number on your hands.



Mental Learning Task

- Show me a number bigger than....

5



Mental Learning Task

- Show me a number bigger than....

3



Mental Learning Task

- Show me a number bigger than....

1



Mental Learning Task

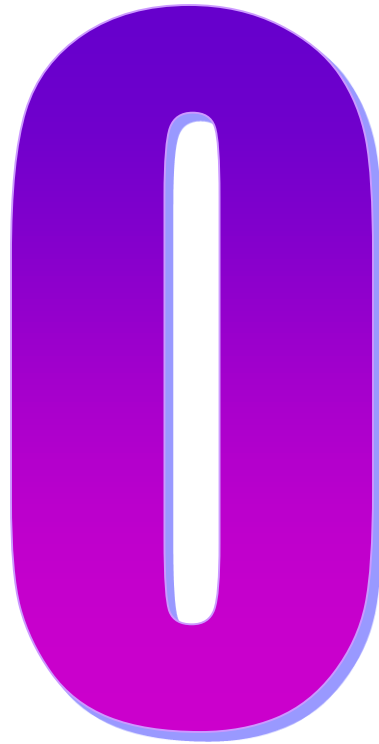
- Show me a number bigger than....

7



Mental Learning Task

- Show me a number bigger than....



Mental Learning Task

- I am now going to show you some numbers.
- Can you put them all in the right order?
- Write the correct order on the number line



Mental Learning Task

5

2

1

4

3

0



Mental Learning Objective

- I can identify numbers
- I can put numbers into order.



Main Learning Objective

- Today I will learn how to count to 10.
- I will move away each item as it is counted.



Main Learning Task

- Today we are going to work as two groups.
- In Group 1, the younger children will work with an adult at the start and end of the lesson.
- Group 2 works with an adult in the middle.



Main Learning Task

- Group 1
- Today there is a counting problem to solve.
- You are going to see if you can fit 10 things into quite a small pot.



Main Learning Task

- Group 1
- Your teacher will give you lots of nice things to choose from.
- She will come back later to see if you have completed this task.



Main Learning Task

- Group 2
- Sit in pairs
- Today we are going to play a game called 'Counting on'.
- You need the dice, and some counting objects.



Main Learning Task

- Each player starts with one object.
- The object of the game is to collect objects without ever having more than 10.
- Roll the dice and decide if you take that many objects, you will still have 10 or fewer objects.



Main Learning Task

- The winner is the one with exactly 10 objects.
- Predict the number, and then check by counting.



Main Learning Task

- Today's challenge:-
- Play the game with 20 objects and use a normal 1 - 6 dice.



Main Learning Task

- Group 1:-
- By now all Group 1 will have collected 10 objects.
- Line up the objects and count them.
- Did you have 10?
- Well Done!



Main Learning Objective

- Today I will learn how to count to 10.
- I will move away each item as it is counted.



Plenary

- Children in group 1 can show what they put into their pots.
- Count out the 10 objects.
- Why do some pots look fuller?



Plenary

- Choose some children to stand in a huddle.
- How many children are there?



Plenary

- Line the huddle up!
- How many children are there?
- Which was easier to count?
- Try it again.



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