Dr Fog Presents

Using place value to put numbers into order.

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

• Record sheet
Mental Learning Objective

• Reading and writing numerals to 1000.
Mental Learning Task

• Today's lesson is about putting numbers into order.

• We are going to get warmed up by counting.
Mental Learning Task

Start at 19. Count on in ones...

Count back to 9
Mental Learning Task

Start at 38. Count on in ones...

Count back to 30
Mental Learning Task

Start at 12. Count on in tens to over 100...

Count back to 12
Mental Learning Task

Count back from 150 in tens.
Mental Learning Task

Count on from 267 in tens.
Mental Learning Task

- Read out these numbers.

17 121 112
321 71
706
211 312
Mental Learning Task

- What number is 10 more than these?

17  121  112
321  71
706
211  312
Mental Learning Task

• What number is 10 less than these?

17 121 112
321 71
706
211 312
# Mental Learning Task

- **Write these numbers in words:**

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<td>19</td>
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Mental Learning Objective

• Reading and writing numerals to 1000.
Main Learning Objective

• I can order a set of numbers.

• I can get a sense of how likely something is.
Key Idea

The left-hand digits of a number indicate its approximate size.
Main Learning Task

• **The ladder game**: Put these numbers into order.

56  42
17  8
3   42
96  8
24  19
86
9
Main Learning Task

• Now you are going to play the ladder game.

• Divide the class into four group of similar attainment.

• Give out worksheets.
Main Learning Task

• Each pupil cuts or tears a sheet of paper in four to make ‘cards’ and writes on each card a number from 0 to 999.

• The group puts all their cards together, face down.

• Mix the cards up.
Main Learning Task

• Everyone pick a card.

• Read the number.

• Decide where to place it on their first ladder.
Main Learning Task

• If a number comes up that can’t be fitted in – it should be put ‘in the bin’ on the sheet.

• When completed, look at each other’s ladders.
Main Learning Task

• What numbers did you get into order?

• Who got the most numbers in order?

• Who had fewest in the bin?
Main Learning Task

- Challenge:
- Find out if the game is easier or harder if you play with only the numbers 650 - 750.
- Draw a ladder with more rungs.
Main Learning Objective

• I can order a set of numbers.

• I can get a sense of how likely something is.
Plenary

• Did anyone get all their numbers into order?

• Did you get better at the game as you went on?

• Was it easier or harder to play with a ladder with more rungs?
Plenary

• Everyone write down a number between 0 and 1000.
• Give your card to the teacher.
Plenary

• Play a class game of Ladders.
Plenary

• We are going to finish on some adding and taking away.
• On the next board is a start number.
• And some operations.
• Add or takeaway when the teacher tells you to.
Plenary

+ 1

+ 10

+ 100

500

- 1

- 10

- 100
Plenary

• This time you are given the starting number.

• Someone must do the sum secretly and give the answer.

• What was the sum?
Plenary

+ 1
+ 10
+ 100

- 1
- 10
- 100
Plenary

• Today’s key idea was the left hand digits of a number indicates its approximate size.

• Did you get this?
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