

Dr Fog Presents

**Pairs that
make 10
when adding**

Year 2 (National Numeracy Strategy)
(Based on DFEE Sample Lessons)



Resources

- Strips of 2cm squared paper (about 20 squares to each strip).
- Strips of 2cm squared paper with random numbers between 0 and 6



Mental Learning Objective

- I can find near doubles, using doubles already known.



Mental Learning Task

- Today you are going to learn about another way to make addition easier.
- Look for numbers that make 10.



Mental Learning Task

- Put the larger double first.
- Use this knowledge to help with adding near doubles.



Mental Learning Task

- Count up to 100 in 10s, starting from.....

10



Mental Learning Task

- Can you solve addition sums involving 10. Everyone should call out together.

What is 10 and 3



Mental Learning Task

- Can you solve addition sums involving 10. Everyone should call out together.

What is 4 and 10



Mental Learning Task

- Can you solve addition sums involving 10. Everyone should call out together.

What is 10 and 9



Mental Learning Task

- Can you solve addition sums involving 10. Everyone should call out together.

What is 7 and 10



Mental Learning Task

- How could I add these three numbers.

2 5 6



Mental Learning Task

- How could I add these three numbers.

3 5 7



Mental Learning Task

- Find the two numbers which add up to 10.

3 5 7



Mental Learning Task

- What do we now have to add?

3 5 7



Mental Learning Task

- Find pairs that add up to 10.

2 3 8 5

4 6 7 5



Mental Learning Task

- Cross off each pair that makes 10.

2 3 8 5

4 6 7 5



Mental Learning Task

- Write '10' elsewhere on the board.

2 3 8 5

4 6 7 5



Mental Learning Task

- How many tens have you?

2 3 8 5

4 6 7 5



Mental Learning Objective

- I can find near doubles, using doubles already known.



Main Learning Objective

- I can look for pairs of numbers with a total of 10 when adding.



Main Learning Task

- Today you are going to work in pairs in order to discuss your ideas.
- Look for near doubles.
- Share a strip of squared paper with numbers in each square.



Main Learning Task

- Cut the numbered strips into 3-square chunks and work together to add the numbers.
- How will you record the answers?



Main Learning Task

- Simplest work:-
- Provide strips already showing random numbers between 0 and 6.



Main Learning Task

- Next simplest:-
- Pupils write any number up to 9 in each square.
- Then cut up.



Main Learning Task

- Second Hardest
- Pupils write any number up to 15 in each square.



Main Learning Task

- Hardest:-
- Pupils write any number up to 30 in each square.
- Cut into 4-, 5- or 6-square chunks.



Main Learning Task

- How many of these problems can you solve.

Easy

$$5 + 2 + 1$$

$$3 + 4 + 2$$

$$1 + 5 + 6$$

$$6 + 3 + 5$$

Middle

$$9 + 6 + 11$$

$$12 + 3 + 5$$

$$9 + 15 + 7$$

$$12 + 9 + 4$$

Hard

$$9 + 6 + 11 + 9$$

$$12 + 3 + 5 + 27$$

$$9 + 15 + 7 + 5$$

$$12 + 9 + 4 + 30$$

Main Learning Objective

- I can look for pairs of numbers with a total of 10 when adding.



Plenary

- Write one of your sets of three numbers on the board.
- How did you solve it?
- How else could they have done it?



Plenary

- Hands up if you....

**Used Doubles
or Near Doubles**



Plenary

- Hands up if you....

**Looked for
pairs that
make 10?**



Plenary

- Hands up if you....

**Put the
Larger
Number First**



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