

*Dr Fog Presents*

# Idea of Difference

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



# Resources

- Linking Cubes
- Dominoes (Several sets)
- 0 - 6 cards (Several sets)
- 0 - 11 cards (Several sets)
- 1 - 12 dice (Several)
- Difference cards



# Mental Learning Objective

- I understand how to take away.
- I can use the words about taking away.



# Mental Learning Task

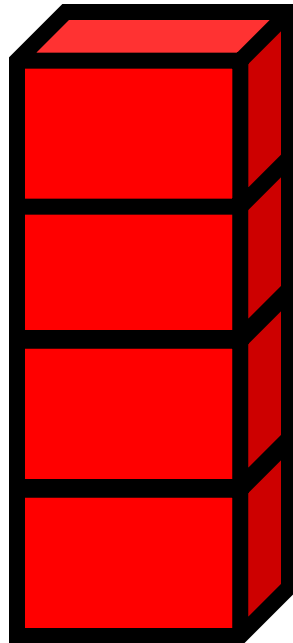
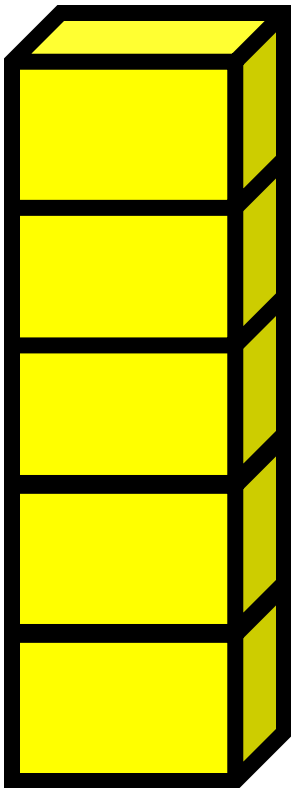
- Today you are going to learn about something called....

**Difference**



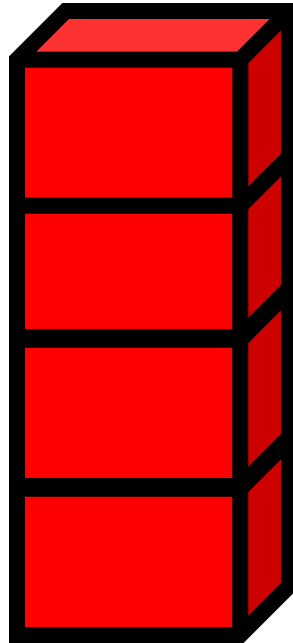
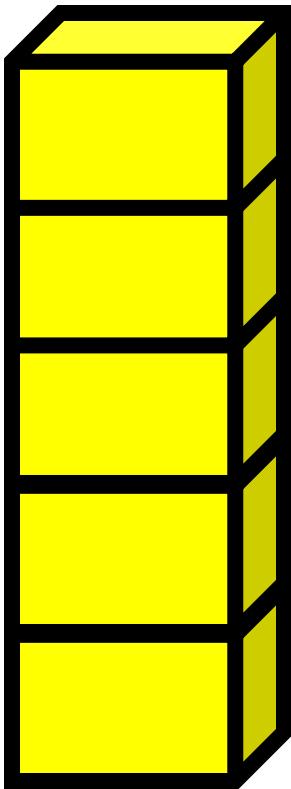
# Mental Learning Task

- Here are two towers...



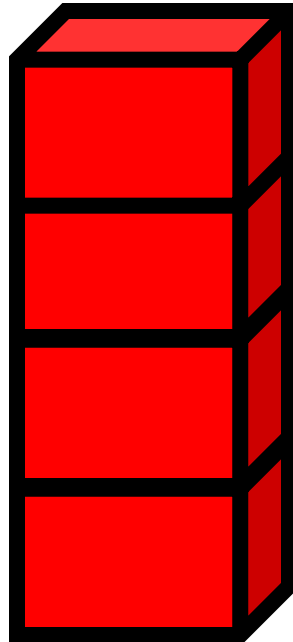
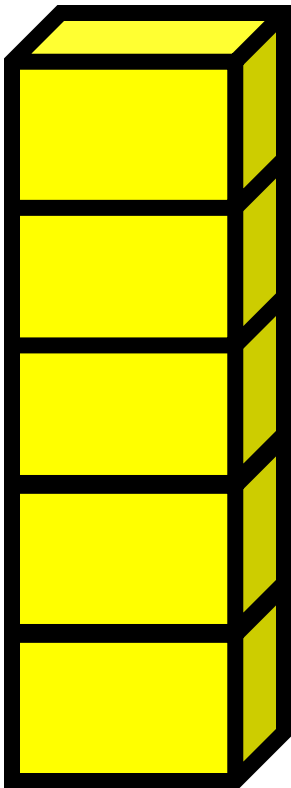
# Mental Learning Task

- What can you tell me about these towers?



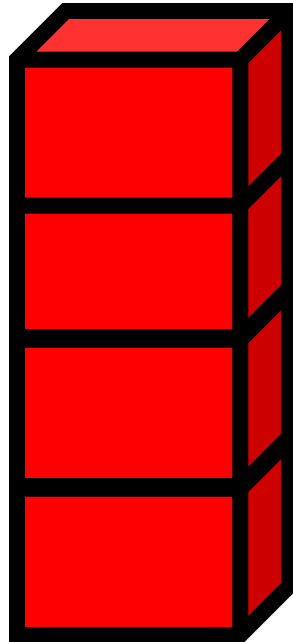
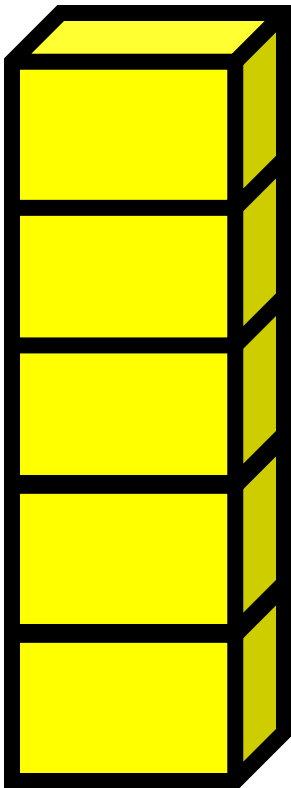
# Mental Learning Task

- Which tower has fewer cubes?



# Mental Learning Task

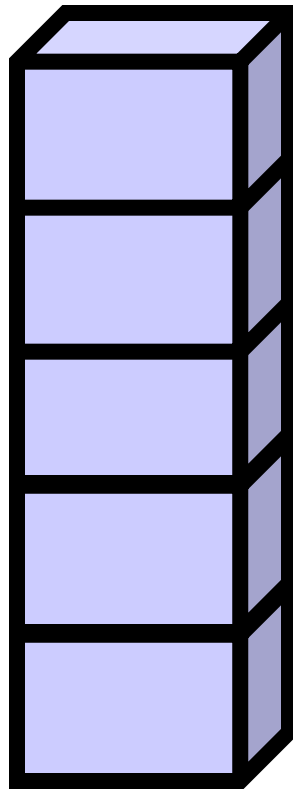
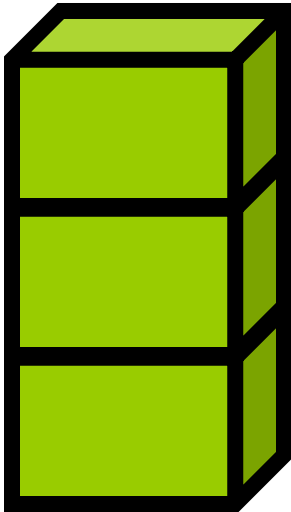
- Which tower has more cubes?





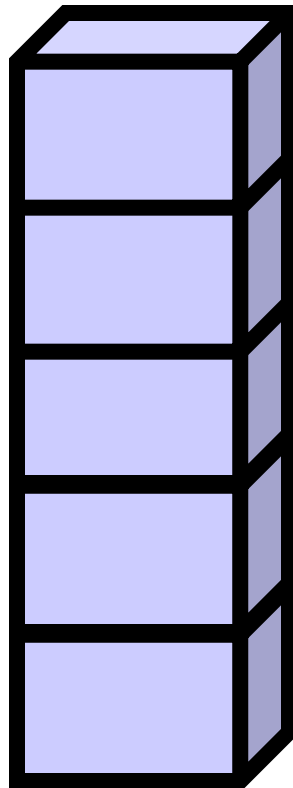
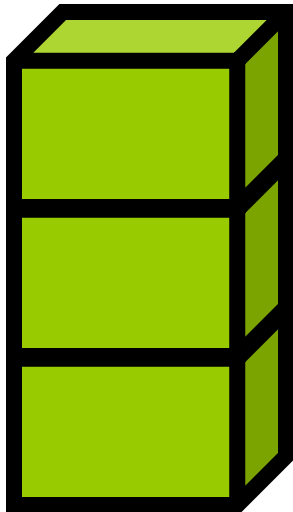
# Mental Learning Task

- Which tower has more cubes?



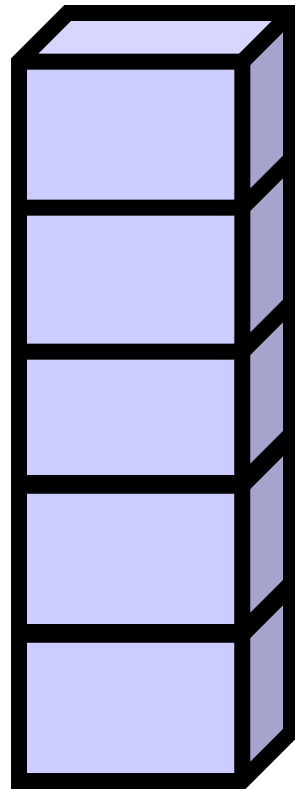
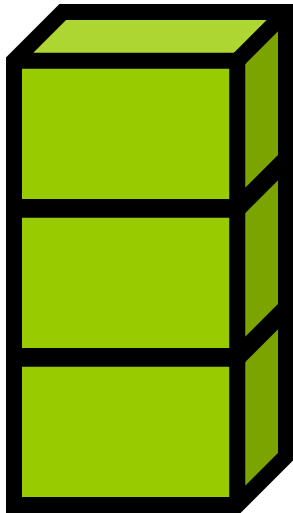
# Mental Learning Task

- How many more has the blue tower?



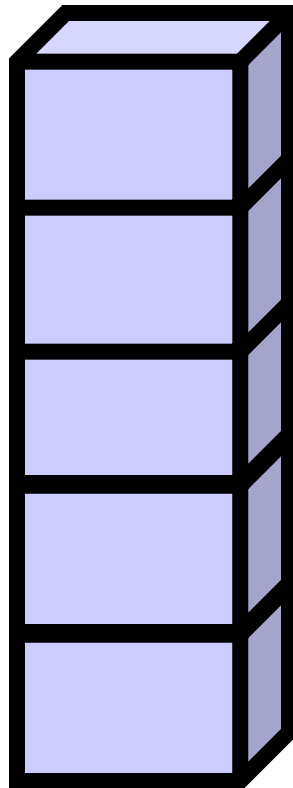
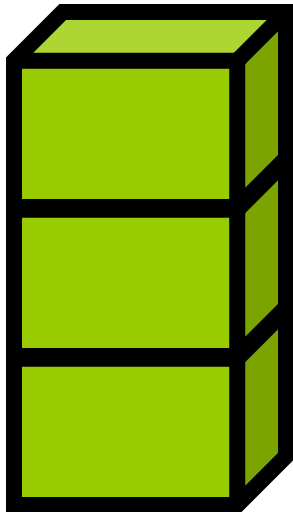
# Mental Learning Task

- How many less has the green tower?



# Mental Learning Task

- What is the difference between them?



# Mental Learning Task

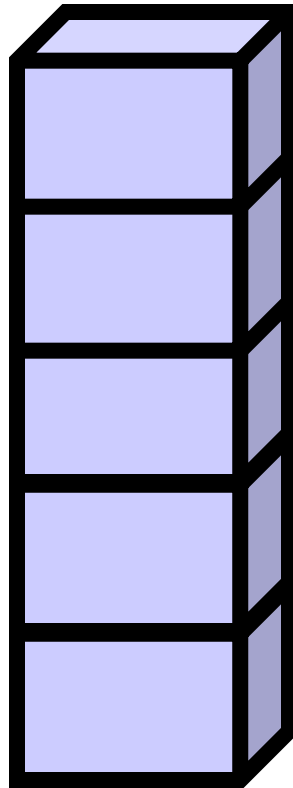
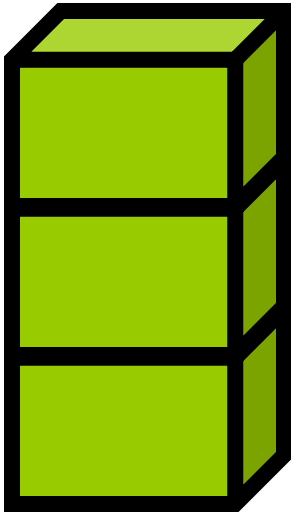
- What does 'Difference between' mean in maths?

**The difference  
is in the numbers**



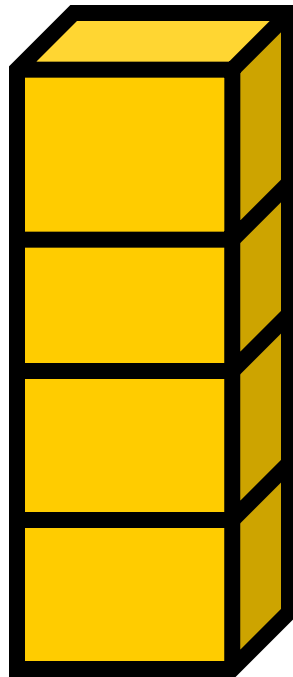
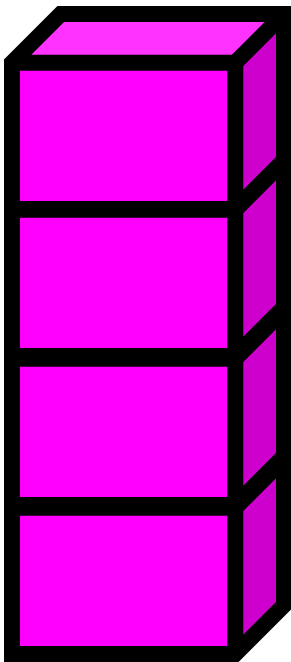
# Mental Learning Task

- How could we make them the same?



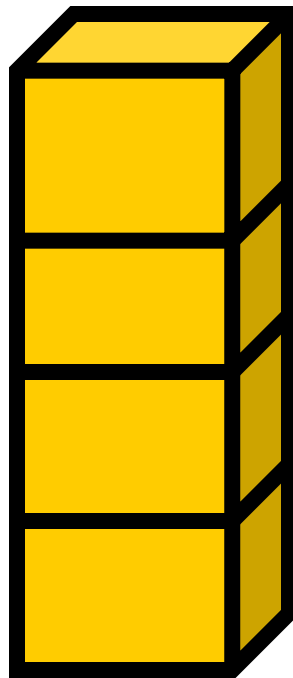
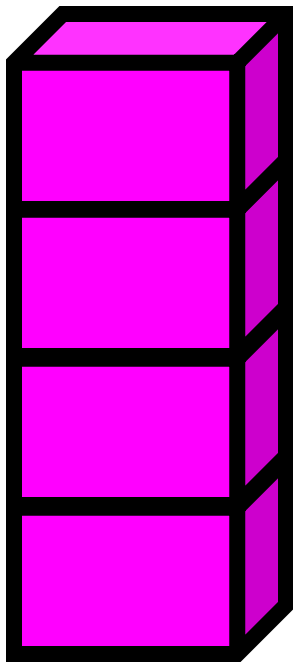
# Mental Learning Task

- What is the difference between these towers?



# Mental Learning Task

- There is no maths difference between them.





# Mental Learning Objective

- I understand how to take away.
- I can use the words about taking away.



# Main Learning Objective

- I can explore the idea of difference as subtraction.



# Main Learning Task

- Today we are going to be working in 4 groups
- Group 1:- Simplest work
- Group 2:- Next simplest
- Group 3:- Second Hardest
- Group 4:- Hardest.



# Main Learning Task

- Group 1:-
- Work in pairs
- One pupil makes a tower of cubes (from 1 to 10 cubes).



# Main Learning Task

- Group 1:-
- Work in pairs
- One pupil makes a tower of cubes (from 1 to 10 cubes).



# Main Learning Task

- The other pupil chooses from the 'difference' cards.
- Build a tower bigger or smaller than the first tower by what it says on the card.



# Main Learning Task

- Group 2:- Next simplest
- Pupils work in pairs.
- Spread a set of dominoes on the table and put a pile of 0 - 6 cards face down.



# Main Learning Task

- Pick a card.
- Read the number.
- Find the domino with the difference of that size.





# Main Learning Task

- Group 3:- Second Hardest
- Pupils play in pairs.
- Each pupil has number cards 0 - 11 spread out in front of them.



# Main Learning Task

- Take turns in throwing the two 1 - 12 dice.
- Find the difference between the numbers on the dice.
- Turn over the card showing that difference.
- *Winner is first to use up all their cards.*



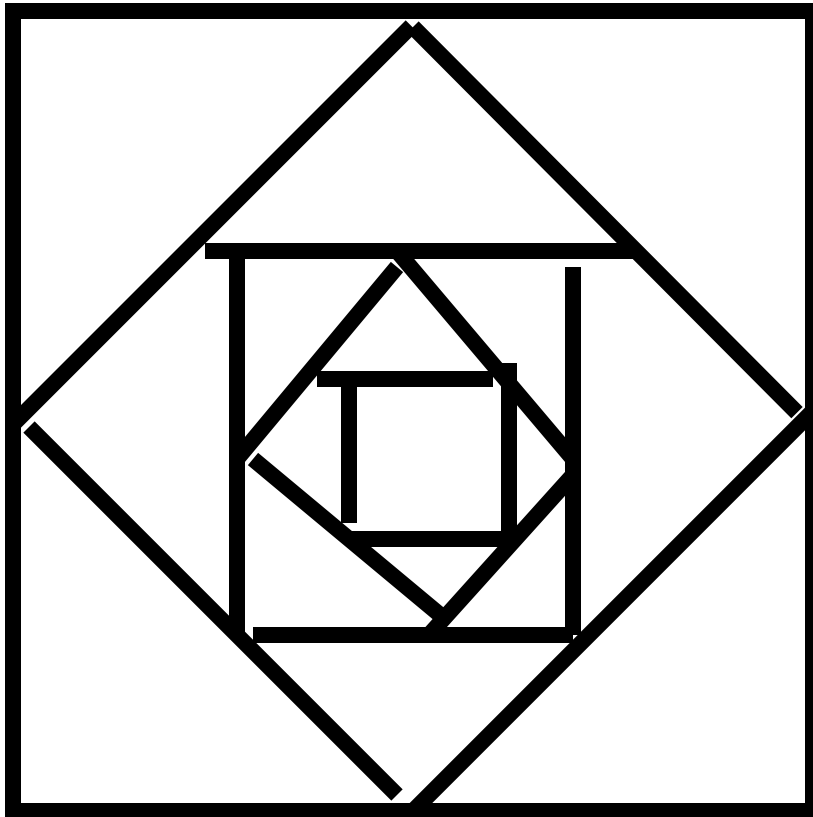
# Main Learning Task

- Group 4 - Hardest work
- Pupils can work as individuals or as pairs.



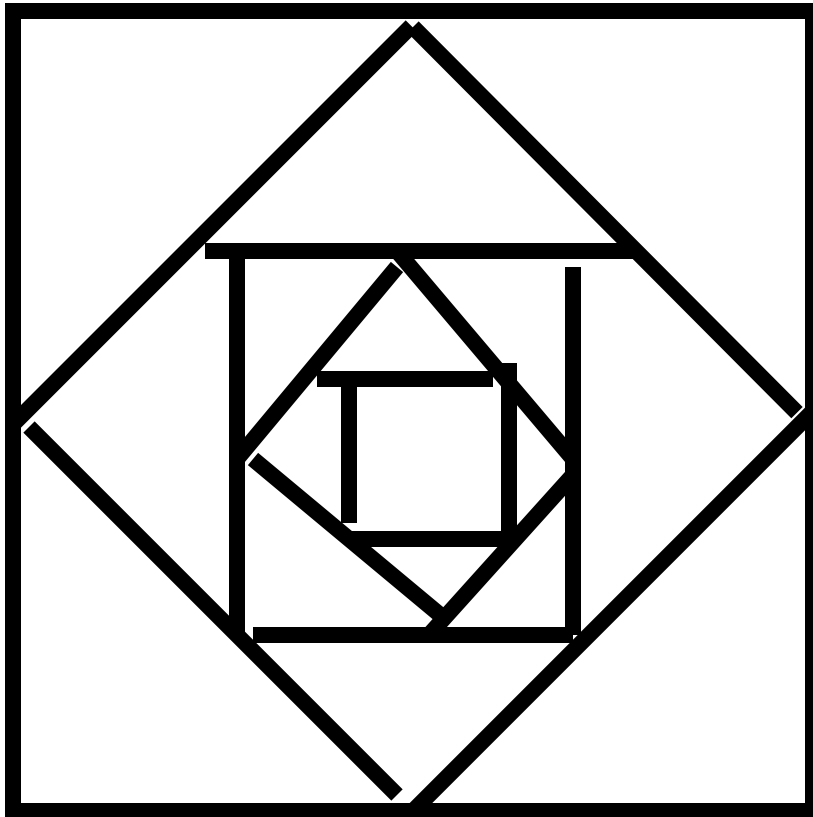
# Main Learning Task

- Write a number at each corner.
- Work out the difference between them.



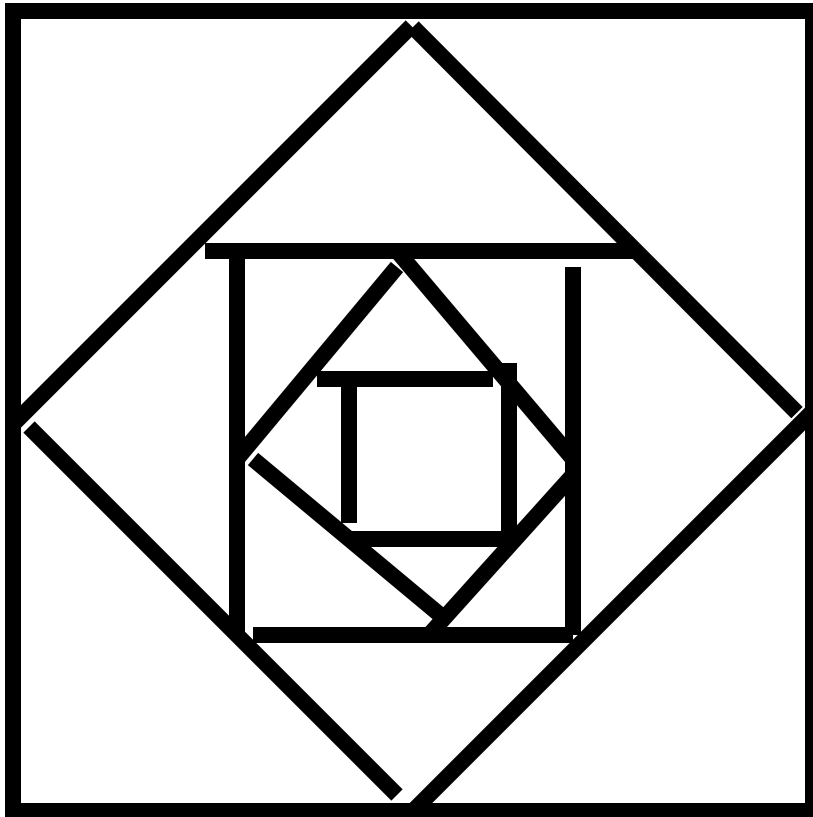
# Main Learning Task

- Keep working out the differences at each mid point.



# Main Learning Task

- Work until you get either 0 on all 4 sides or the same set of numbers each time.



# Main Learning Objective

- I can explore the idea of difference as subtraction.



# Plenary

- Invite pupils to give an example of that they have been working on.
- Can you explain it?
- Did you see any pattern?
- Did the pattern help you check if you got the answers all right?





# Difference Cards

|                    |                    |                    |
|--------------------|--------------------|--------------------|
| Difference<br>of 0 | Difference<br>of 1 | Difference<br>of 2 |
| Difference<br>of 3 | Difference<br>of 4 | Difference<br>of 5 |

# Where Can I Find More Resources Like This?

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