PARENT LEARN

Supporting your child's learning in mathematics across Key Stage 1 – Year 1



How do we teach mathematics using WhiteRose maths in Key Stage 1?



Concrete-

This is the 'doing' stage. Children will use concrete objects to investigate, experiment and problem solve.

Pictorial-

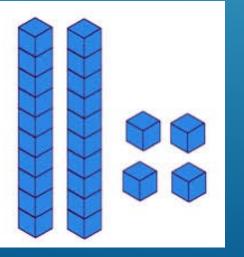
This is the 'seeing' stage. Visual representations of concrete objects are used to model problems. This stage encourages children to make a mental connection between the physical object they just handled and the abstract pictures, diagrams or models that represent the objects from the problem.

Abstract-

This is the 'symbolic' stage, where children use abstract symbols to model problems. Students will not progress to this stage until they have demonstrated that they have a solid understanding of the concrete and pictorial stages of the problem.

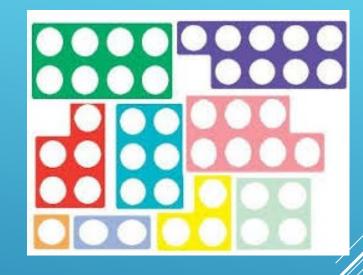
Concrete - objects, manipulatives, equipment





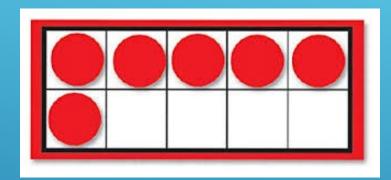


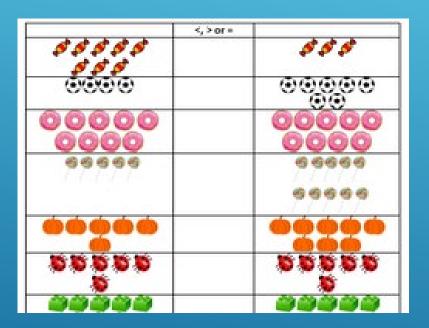


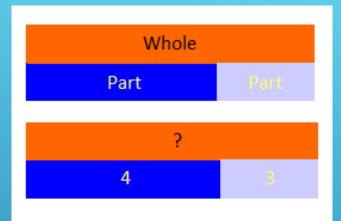


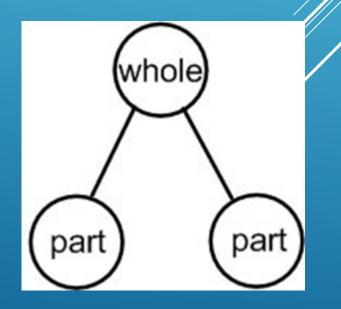


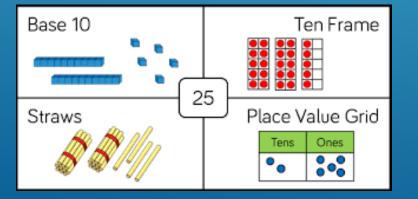
Pictorial – picture representations







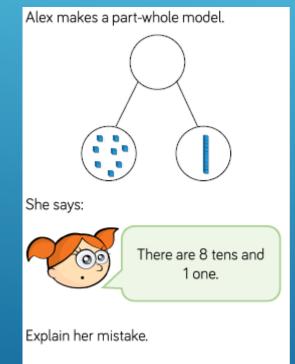




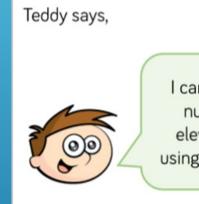
Abstract – move to numbers and methods

Abstract 2+2=4									
10 + 0 = 10									
9 + 1 = 10									
8 + 2 = 10									
7 + 3 = 10									
6 + 4 = 10									
5 + 5 = 10									
4 + 6 = 10									
3 + 7 = 10									
2 + 8 = 10									
1 + 9 = 10									
0 + 10 = 10									

Reasoning and problem solving applying knowledge and explaining

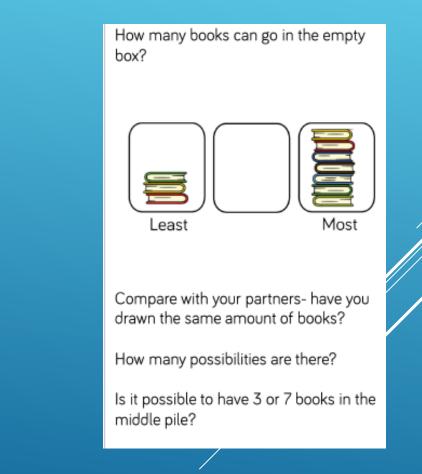


What is her number?



I can make all the numbers from eleven to twenty using the digits 1 – 9

Do you agree? Explain your answer.



Ways to promote thinking:

- > Always, sometimes, never
- > How many ways can you represent
- > How many ways can you find.....
- > True or false?
- > If I know this, then I know
- > How do you know?
- > Convince me
- > If this is the answer, what's the question
- > Mathematics stories
- > Odd one out
- > What do you notice?
- > What else do we know?
- > What's the same? What's different?

Year 1 Curriculum

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value (within 10)				Number: Addition and Subtraction (within 10)				Geometry: Shape	Number: Place Value (within 20)		Consolidation
Spring	Number: Addition and Subtraction (within 20)				(within 50) Len			Lengt	rement: Measurement: th and Weight and ight Volume		Consolidation	
Summer				nber: tions	Geometry: Position and Direction	Number: Place Value (within 100)		Measurement: Money	Measurement: Time		Consolidation	

Key things for Year 1

- >Number recognition
- >What addition means
- >What subtraction means
- >What equals means
- >Number bonds to 10 and 20 fluency

>Represent and use number bonds and related subtraction facts within 20

>Add and subtract one-digit and two-digit numbers to 20, including 0

>Developing fluency in counting in 2s,5s and 10s

>Vocabulary - 'number sentence' (not sum), ones (not units)

Useful websites

https://www.topmarks.co.uk/maths-games/hit-thebutton

https://www.ncetm.org.uk/

https://www.mathshubs.org.uk/