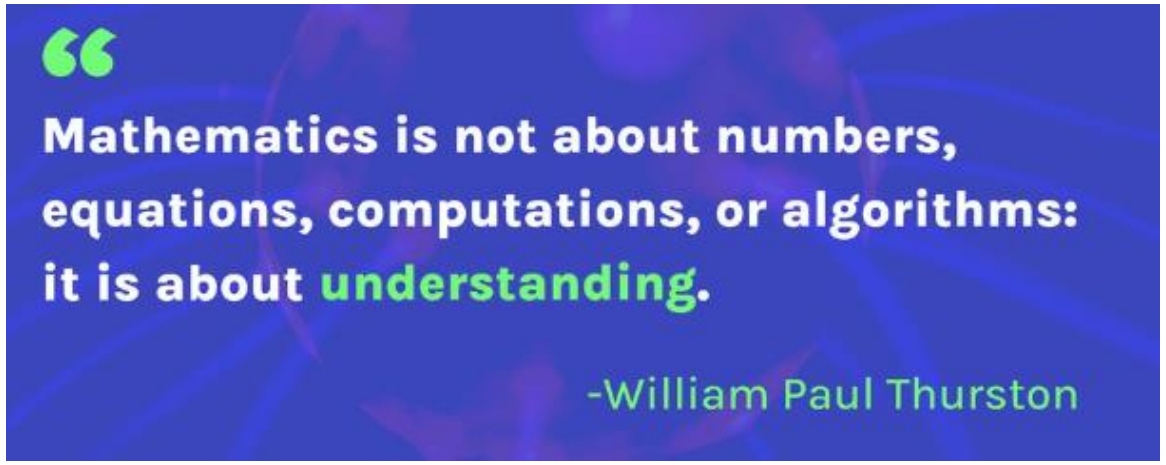
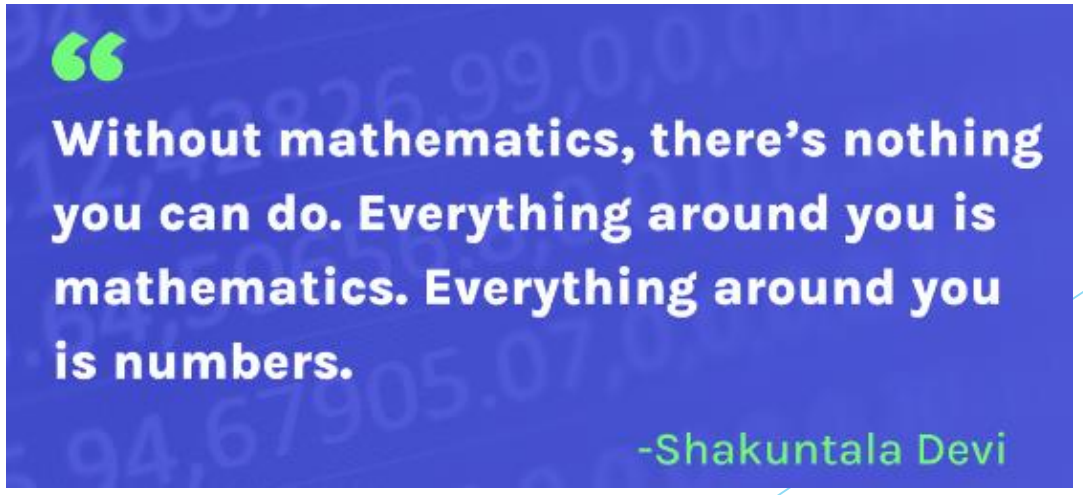
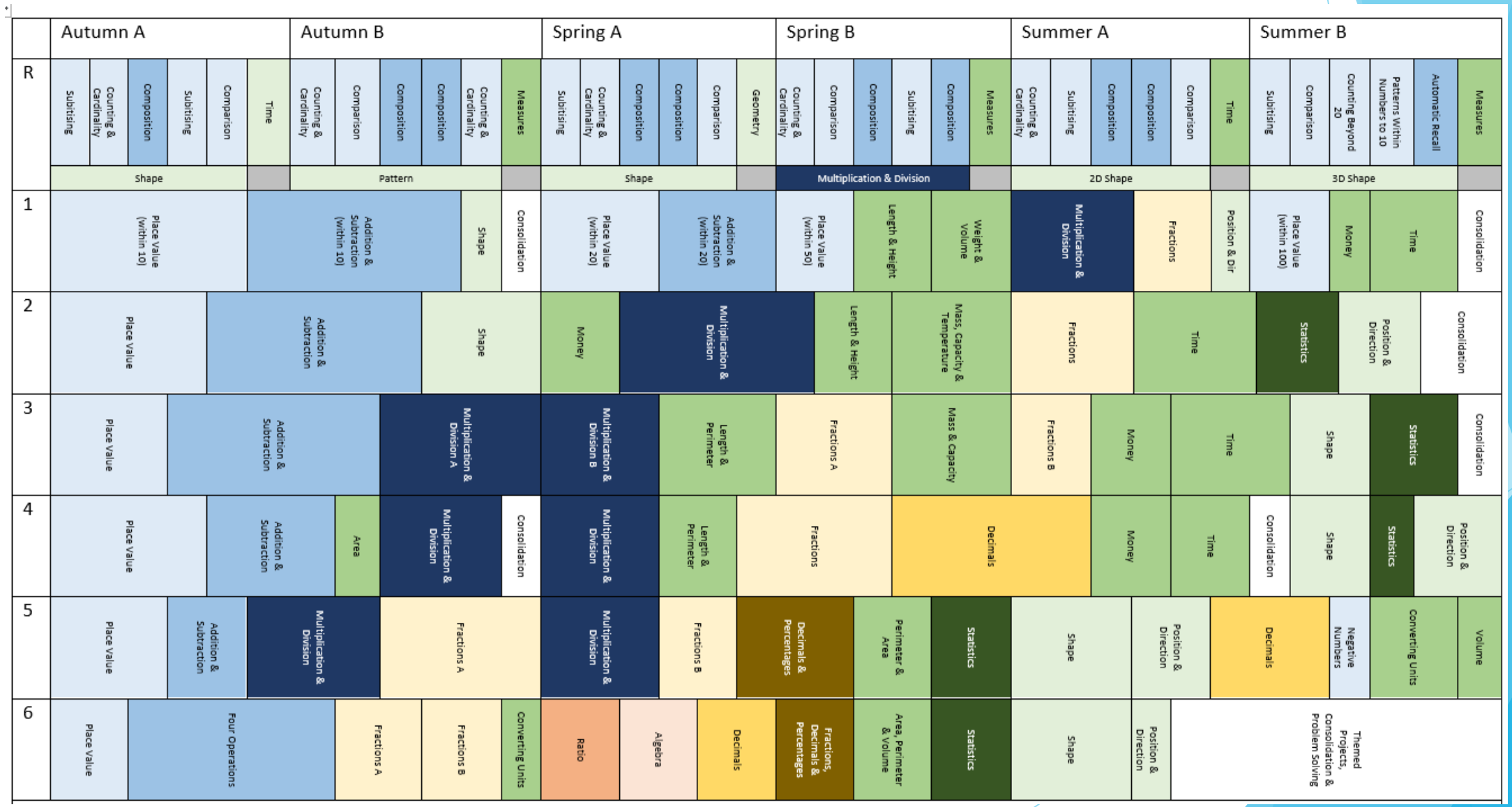
Greythorn Primary School Maths Presentation





Overview of maths at Greythorn



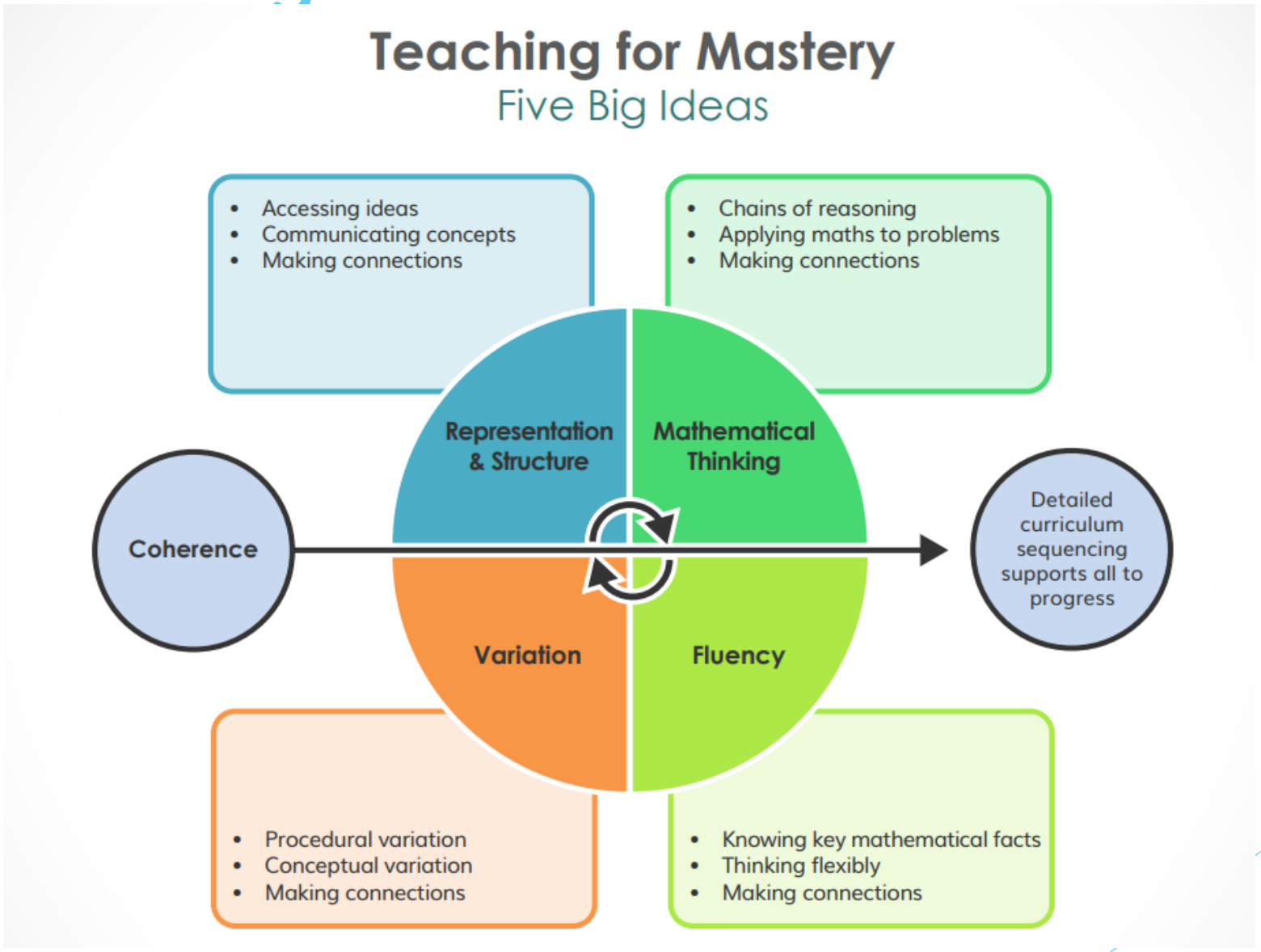
Maths in FS

- Maths in FS curriculum is split into 3 sections. **Number, numerical pattern & shape, space & measure.**

	Autumn A						Autumn B						Spring A						Spring B						Summer A						Summer B					
R	Subitising	Counting & Cardinality	Composition	Subitising	Comparison	Time	Counting & Cardinality	Comparison	Composition	Composition	Counting & Cardinality	Measures	Subitising	Counting & Cardinality	Composition	Composition	Comparison	Geometry	Counting & Cardinality	Comparison	Composition	Subitising	Composition	Measures	Counting & Cardinality	Subitising	Composition	Composition	Comparison	Time	Subitising	Comparison	Counting Beyond 20	Patterns Within Numbers to 10	Automatic Recall	Measures
	Shape						Pattern						Shape						Multiplication & Division						2D Shape						3D Shape					

- We use the mastering number programme by NCETM.
- Mastering Number develops pupils' fluency with and understanding of number to build firm foundations for future success in mathematics learning.
- This covers all 3 areas of our maths curriculum and breaks down into sub sections to include counting & cardinality, subitising, composition, comparison of numbers within 10 and up to 20.
- We teach 5 maths lessons each week. 4 on number/numerical pattern and 1 on shape space and measure.
- We also have 2 weekly provision enhancements to develop the children's knowledge. 1 enhancement will be supporting the children to deepen and cement their knowledge of previous learning and the other will be a new concept from that week.

Mastery Maths



Features of Mastery Maths

- **Fluency**- number facts, writing numerals

  Automaticity in number- number bonds, 1 more, 1 less, 10 more, 10 less, tables

- **Reasoning**- what if? What comes next? Is that the only answer? Is that the quickest method?

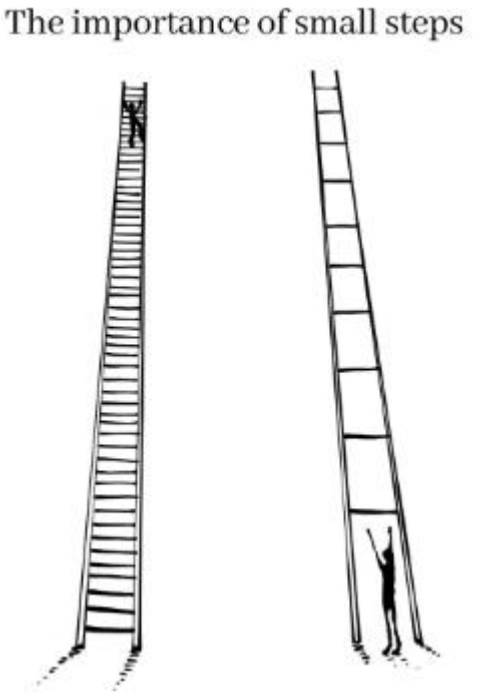
  Promoting curiosity

- **Problem Solving**- applying methods to real life problems

  Showing resilience and perseverance and thinking creatively about problems

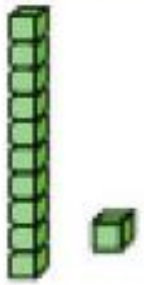
Features of Mastery Maths

- Reactivating prior knowledge
- Modelling methods
- Working together to practise the maths
- Using structures that support the learning
- Using manipulatives that aid the understanding
- Identifying misconceptions
- Giving varied practice
- Using small steps
- Independent practice

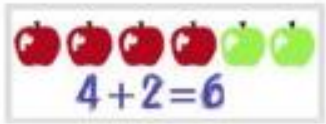


Concrete, pictorial, abstract

Active/Concrete



Building Visual Images



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Abstract

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Maths at Greythorn

- What does a lesson look like?

- Reactivate prior knowledge

- Teach and model the new learning

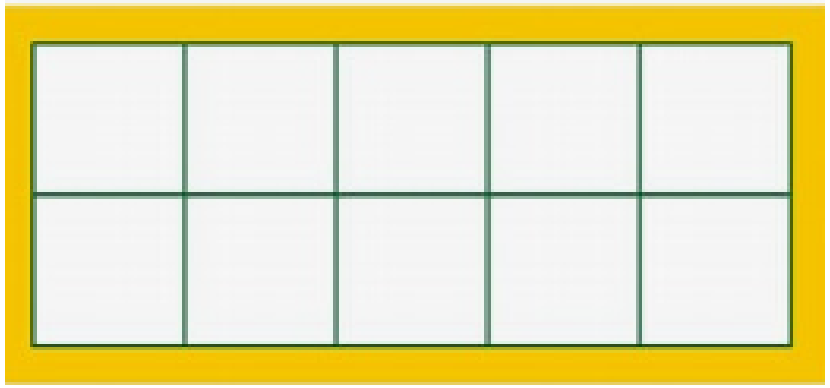
Look at common misconceptions, use of manipulatives.

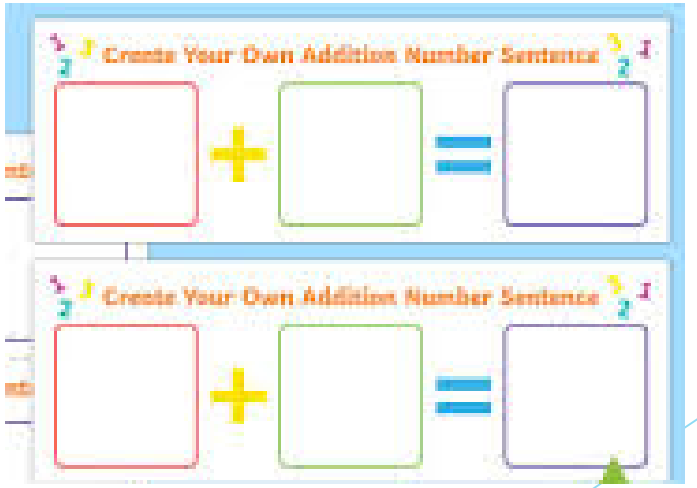
- Work together as a class on some varied problems

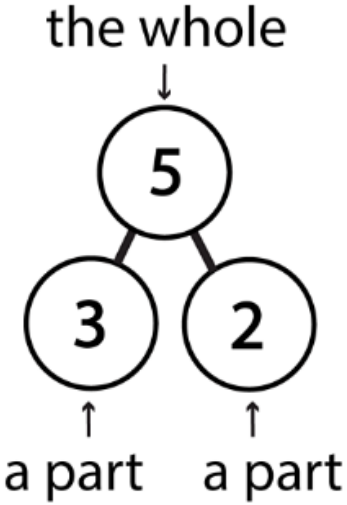
- Work independently on varied practice

- Reflect on learning

Structures and Manipulatives







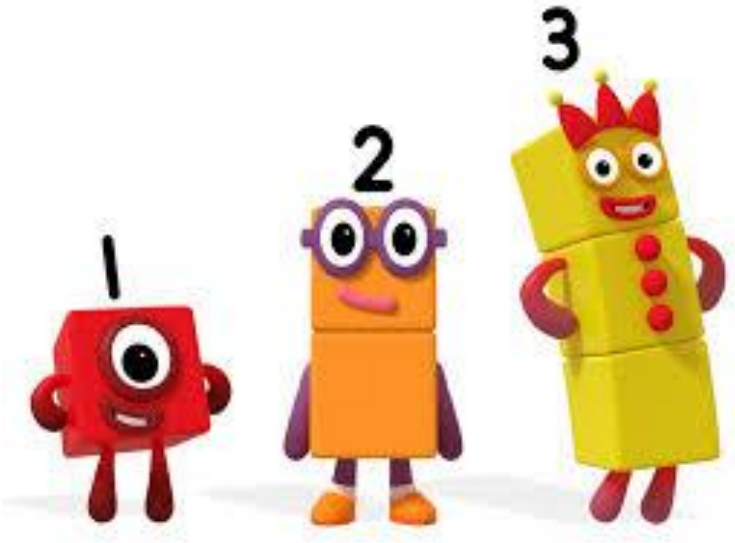
Reactivate: Sing the number songs to remind you of the numeral order and pattern.

What do you notice about the numbers?

Do the numbers go forwards of backwards?

Teach, facilitate, model.

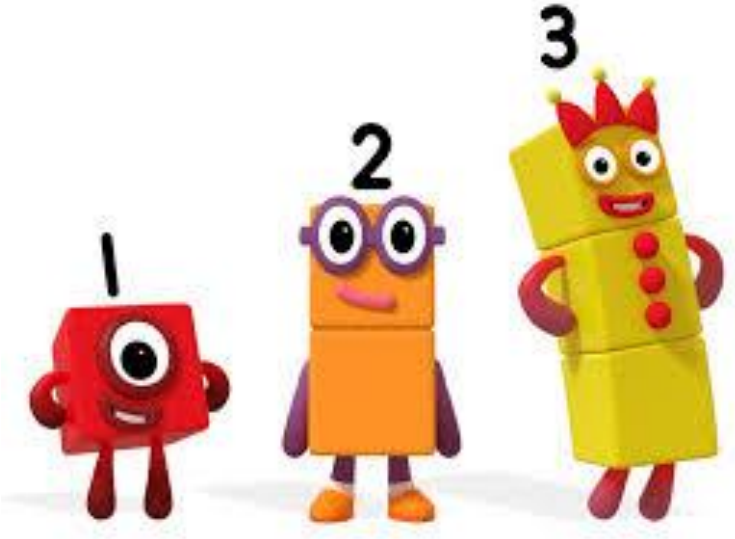
LO: To know the composition of numbers to 3.



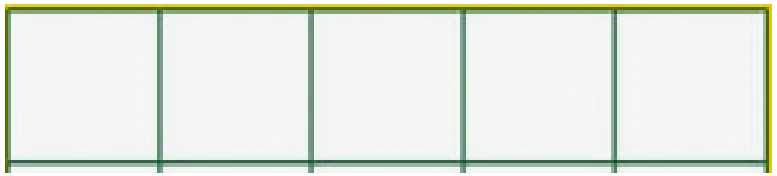
- Modelling how the numbers up to 3 can be made and represented in different ways.
- Use manipulatives including cubes, 5 frames, Numicon to show this.
- Challenge misconceptions – children to notice teacher error.

Learn, together.

We know which number each Numberblock represents but what clues can you see that helps us?

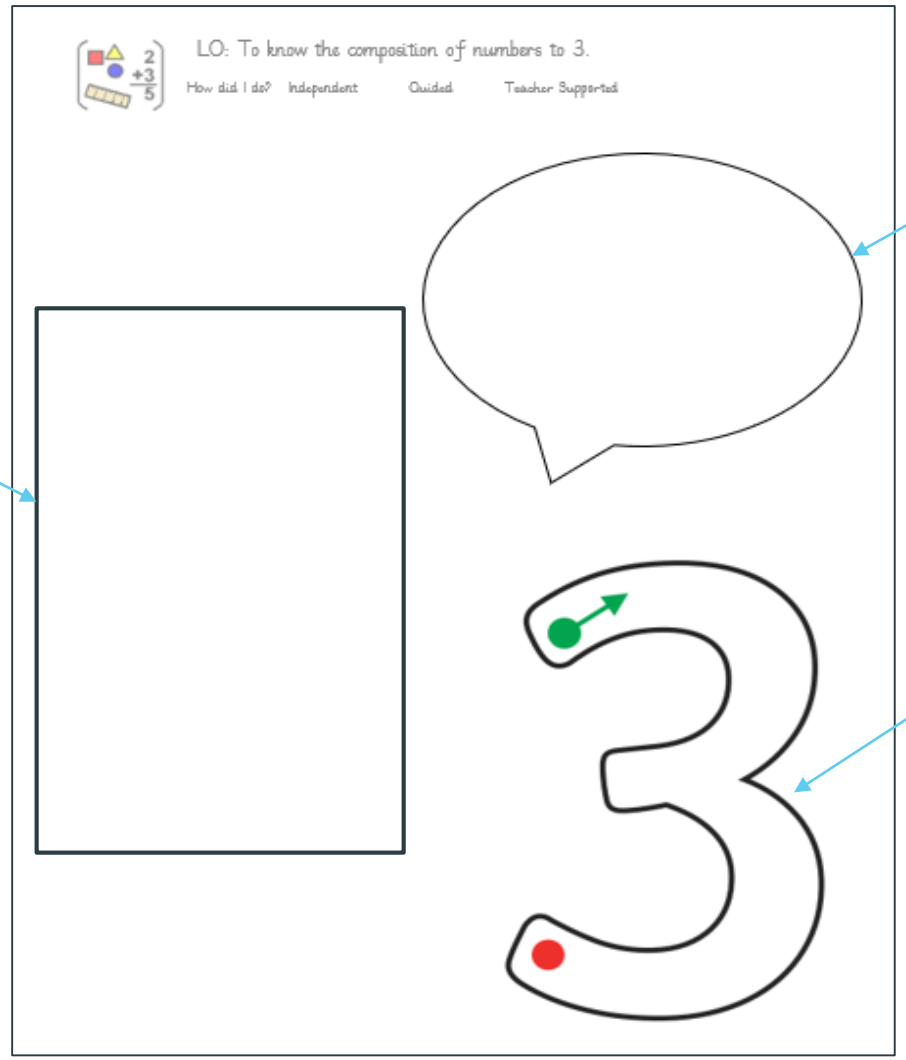


Work together with your partner to represent the numbers up to 3 using the resources.



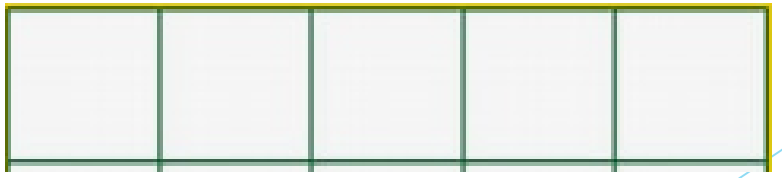
Independent practice.

Photograph of child completing task with their chosen manipulatives.

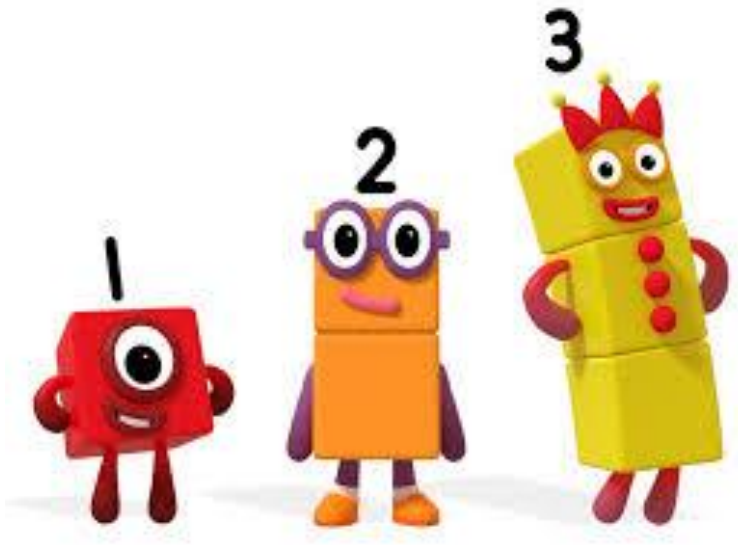


Child voice

Number formation

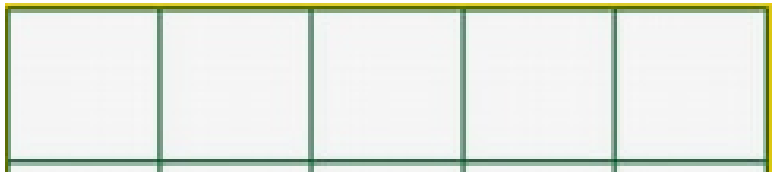


Reflection



We know which number each Numberblock represents but what clues can you see that helps us?

What do we use these for? How do they help us to learn about composition?



How to encourage your child.

- The best thing that parents and carers can do for children is to have a **positive attitude** towards maths. Please don't say things like "I can't do maths" or "I hated maths at school"; your child might start to think like that themselves.

- **Point out the maths in everyday life.** Include your child in activities involving maths such as using money, cooking and travelling.

- **Praise your child for effort rather than talent** – this shows them that by working hard they can always improve

- **Help your child to learn their Number Facts**