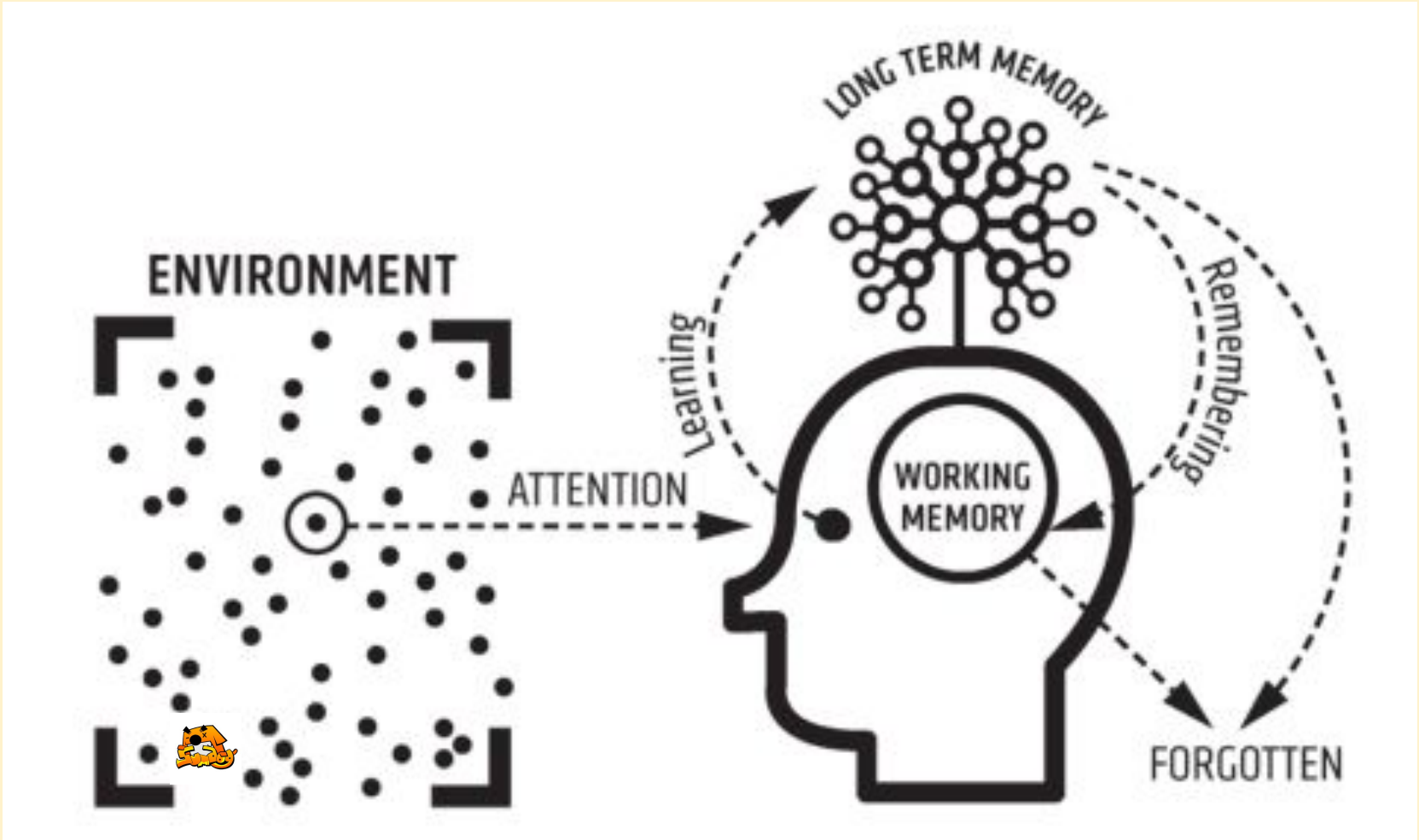
Maths @

Pamphill

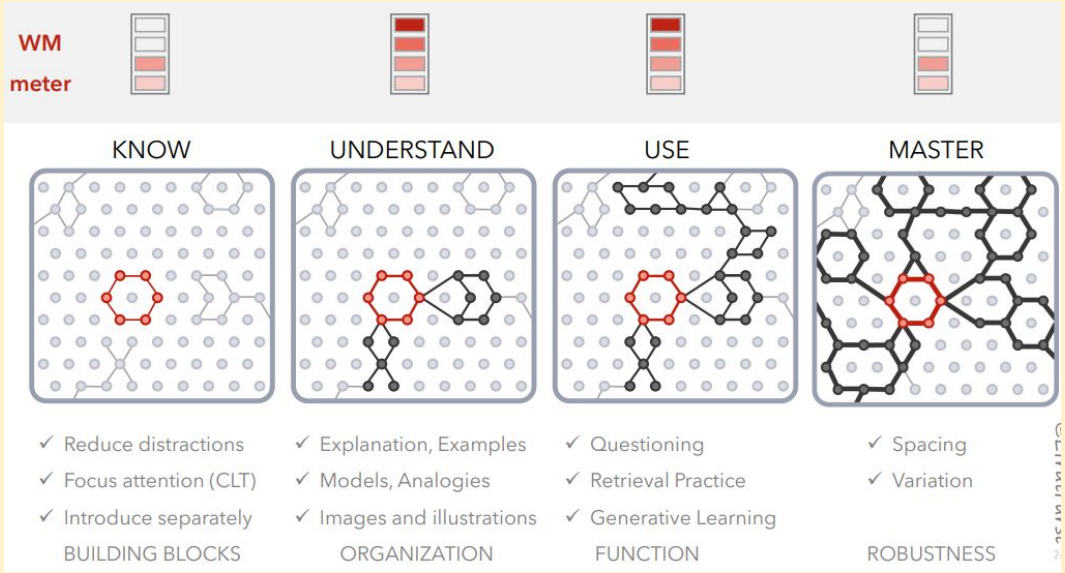
First School

The aims of tonight

1. To make it look like I know what I'm talking about.
2. To share a base level of understanding of what Maths looks like in the classroom today.
3. To make maths seem less scary.
4. To persuade you that **everyone can be good at maths.**
5. To share the importance of strong foundations.
6. To give you the confidence to engage in Maths with your children.
7. To provide some clarity around what Maths looks like for your child, this year.


LONG TERM MEMORY
ENVIRONMENT
Learning
Remembering
ATTENTION
WORKING MEMORY
FORGOTTEN

A Maths Example (the journey)



23 + 8 = 31

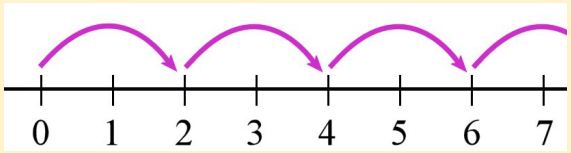
- Counting on
- 23 + 8 = 8 + 3 + 20
- Formal method (renaming)
- If Bill has 23 stickers and Ted has 8 more than him, how many stickers does Ted have?
- All together, Bill and Ted have 54 stickers. Ted has 8 more than Bill. How many do they have each?

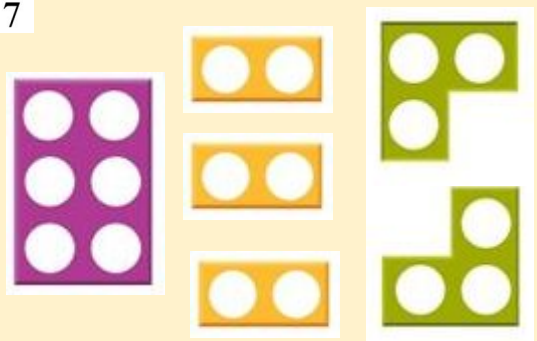
What Maths Isn't (anymore)

- X Pages of calculations (repetition for repetitions sake)
- X Rote learning / memorisation of facts
- X Formal methods above all else

2 x 1	= 2
2 x 2	= 4
2 x 3	= 6
2 x 4	= 8
2 x 5	= 10
2 x 6	= 12
2 x 7	= 14
2 x 8	= 16
2 x 9	= 18
2 x 10	= 20
2 x 11	= 22
2 x 12	= 24

2 x 1	=
2 x 2	=
2 x 3	=
2 x 4	=
2 x 5	=
2 x 6	=
2 x 7	=
2 x 8	=
2 x 9	=
2 x 10	=
2 x 11	=
2 x 12	=

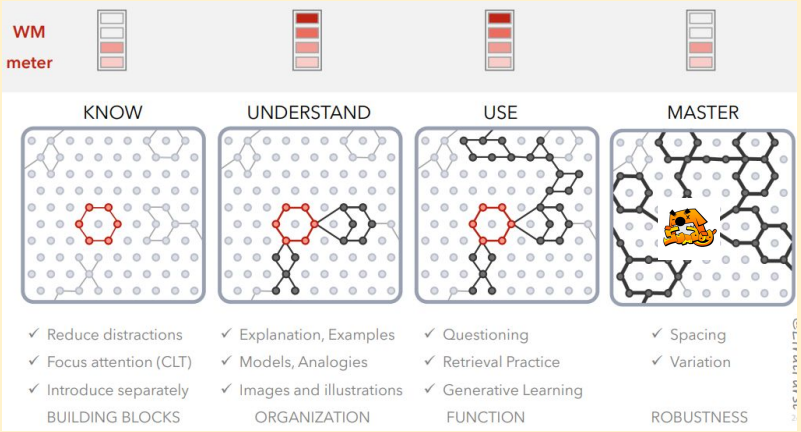




Maths Mastery

Concrete, pictorial, abstract

‘Number sense’ - value of numbers



- Explore (what do we already know, retrieve from working / long term memory, discuss multiple methods, efficiency, challenge)
- Observe (teachers introduce and model the new learning)
- Do together (guided practice)
- Do independently

Reasoning and problem solving interwoven throughout - varied fluency

Importance of Secure Foundations

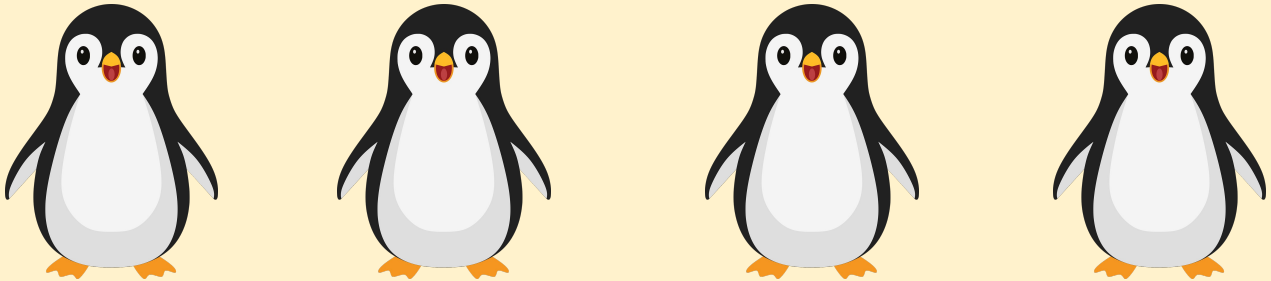
Counting, one-to-one correspondence and cardinality

Subitising

Automaticity

Navigating the number system (base 10)

Sumdog



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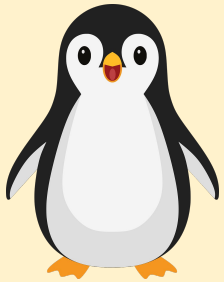

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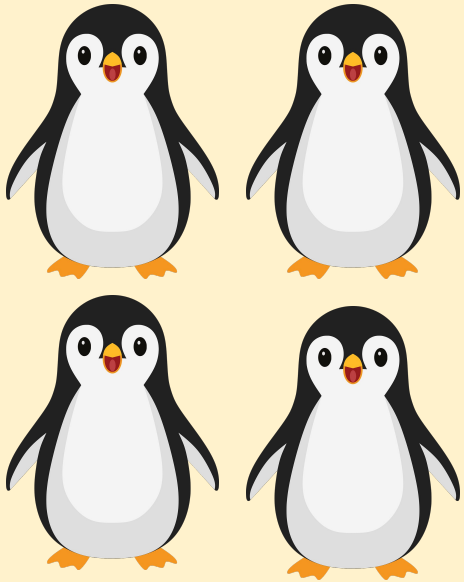

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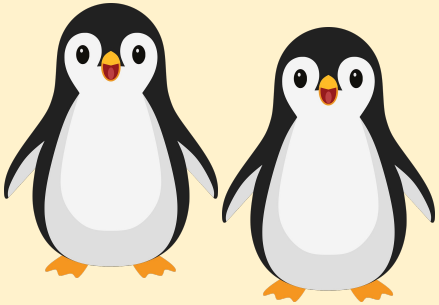

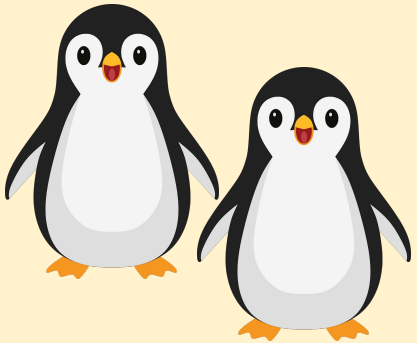

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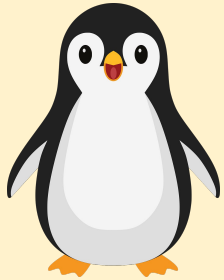

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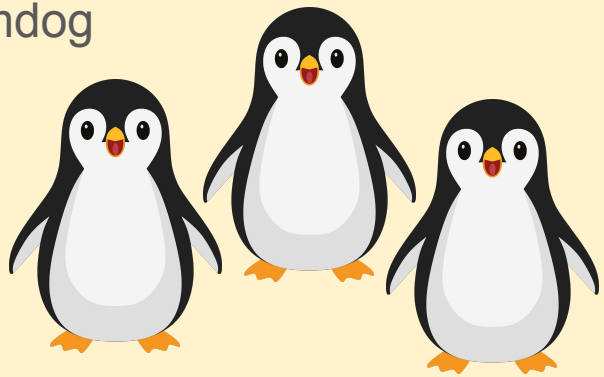

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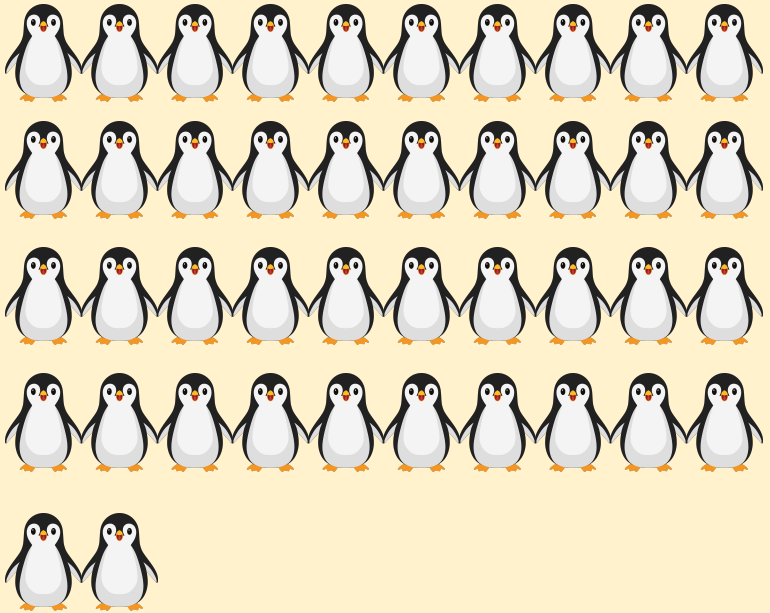

To sum up…

- Carefully sequenced learning
- Number sense / value of numbers
- Mastery approach: concrete , pictorial, abstract; interwoven with reasoning and problem solving. Building secure mathematical foundations at its core.
- In pursuit of excellence, we will **support and challenge with kindness and clarity.**
- Chance to see this in the context of your child(ren)'s classrooms.

Next Wimborne Academy Trust contest starts this Friday (11th November)