

LET'S FIND OUT
ABOUT MATHS
AT HEYMANN

WELCOME

Aims for the session

- To give you an idea of how we teach maths in Years 3, 4 and 5 and across our school
- To understand what underpins our curriculum
- To show how children move from working with concrete apparatus, to pictorial representations to abstract.
- To look at how we might represent numbers and what we know in different ways
- To see how your children will be challenged
- To see for yourselves and have a go!

Our Mastery Approach

MATHS 
NO PROBLEM!

Teaching maths for mastery

The whole class works through the programme of study at the same pace with ample time on each topic before moving on. Ideas are revisited at higher levels as the curriculum spirals through the years.



WHAT UNDERPINS OUR MASTERY CURRICULUM?

We want our children to :

- Become fluent in the fundamentals of mathematics;
- Be able to reason mathematically;
- Be able to solve a range of problems.

We are aiming for all children to develop a deep understanding of the concepts taught.

WHAT DOES IT MEAN TO MASTER SOMETHING?

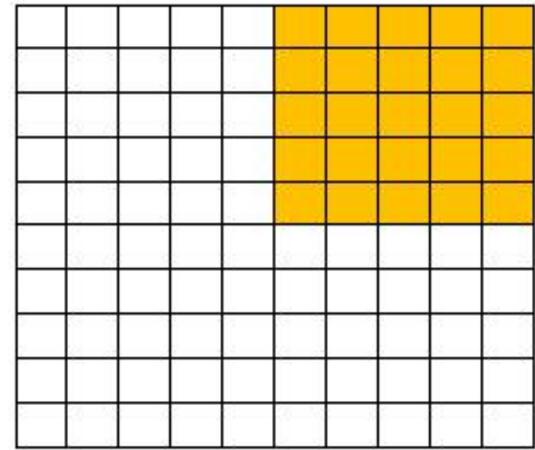
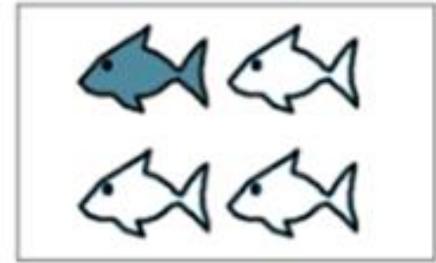
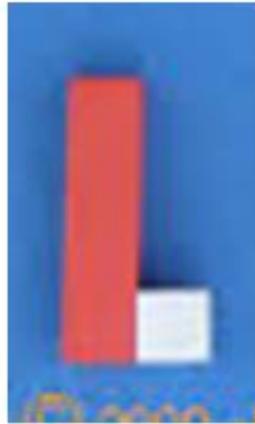
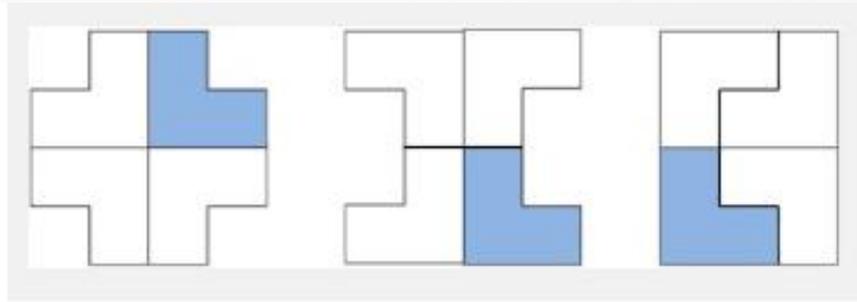
- I know how to do it!
 - It becomes automatic and I don't need to think about it - for example driving a car
-
- I'm really good at doing it - painting a picture
 - I can show someone else how to do it



MASTERY OF MATHS IS MORE.....

- Achievable for all
- Deep and sustainable learning
- The ability to build on something that has already been sufficiently mastered
- The ability to reason about a concept and make connections
- Conceptual fluency

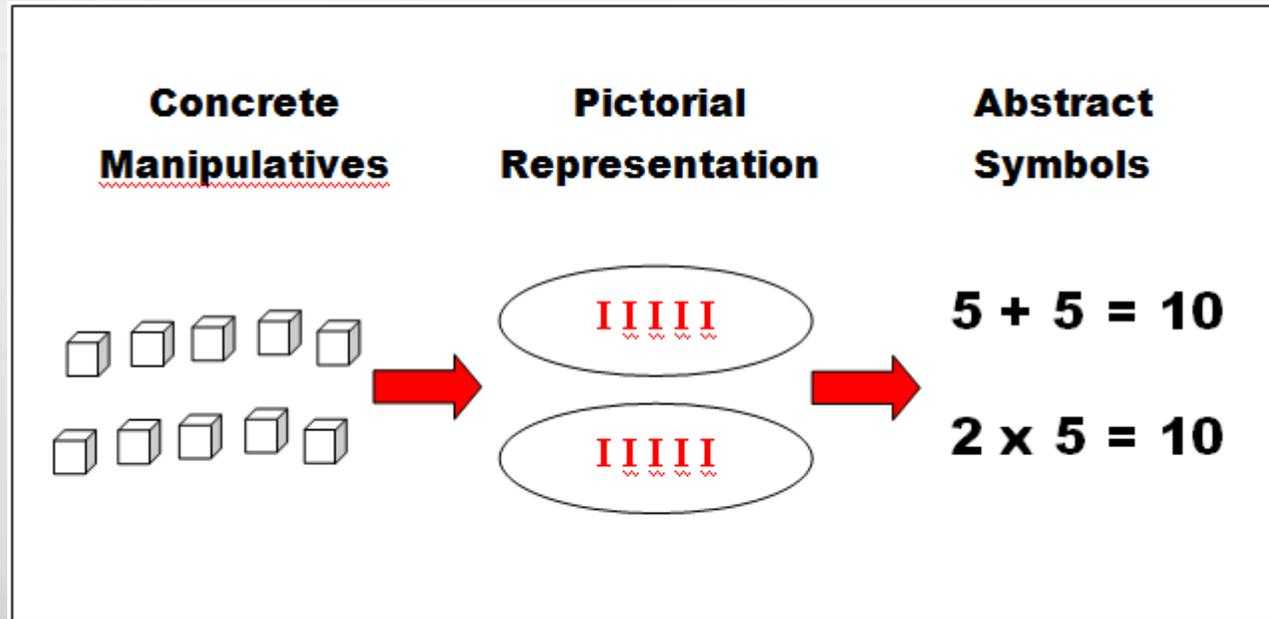
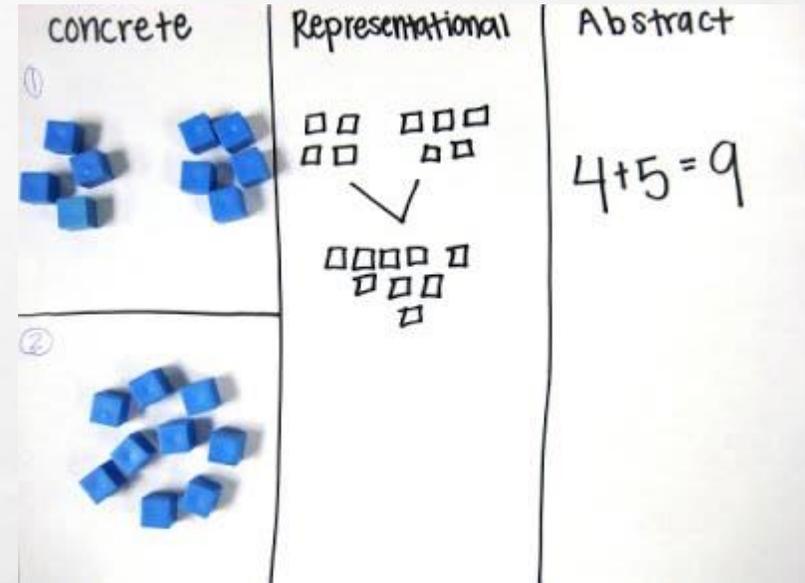
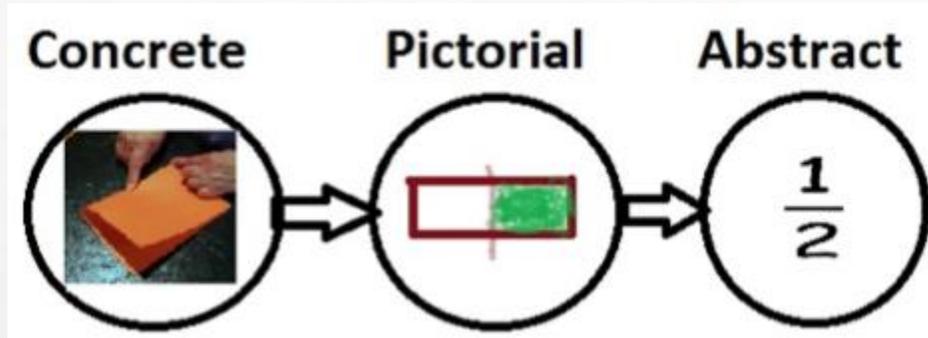
What fraction is shaded? Explain your reasoning.



WHAT HAPPENS IN OUR MATHS LESSONS?

- In focus task: Children are given an anchor task to discuss with their partner.
- Let's Learn: interactive whole class learning.
- Guided Practice: Children work through a series of problems from the textbook with their partner.
- Independent task: children complete a worksheet from the Workbook by themselves which allows them to consolidate that lesson's learning.
- Challenge task: an opportunity to apply the learning to another context.
- Reflection: work is often marked together so that any issues can be discussed and explored.

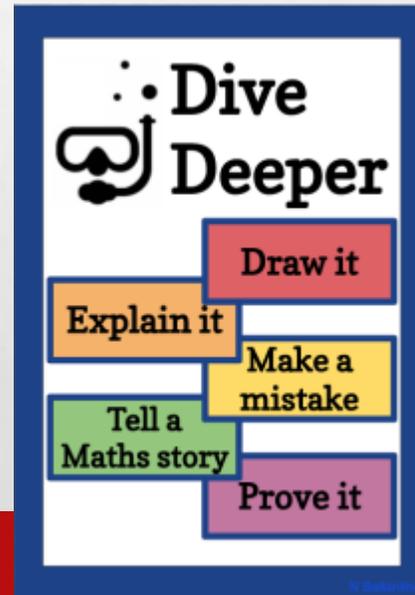
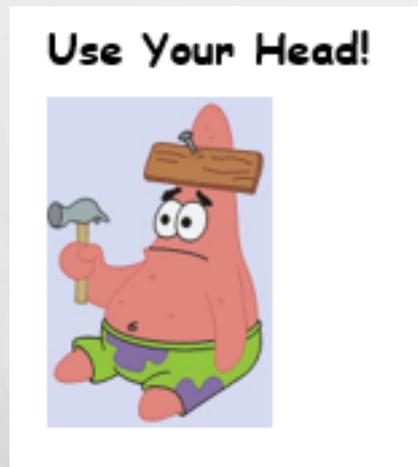
CPA



Challenge

Is provided by:

- Encouraging children to go deeper rather than go further
- Enabling them to develop effective reasoning skills
- Providing them with the opportunity to apply their knowledge to a range of increasingly complex problems
- Expecting children to seek out opportunities to challenge themselves



Take a look! Have a go!

- 1: Maths No Problem textbooks and workbooks and examples of children's work from journals.
- 2: Different ways of tackling addition
- 3: Examples of challenge tasks to have a go at
- 4: Bar models matching task