

Maths at The Elms

Why does Maths matter?

- **Mental Discipline and Reasoning:**

Mathematics provides structured learning that helps build mental discipline, logical reasoning, and analytical thinking.

- **Problem-Solving Skills:**

Math encourages students to identify problems, analyze them, and develop solutions, a skill applicable in many aspects of life.

- **Foundation for Other Subjects:**

Mathematics is essential for understanding science, technology, engineering, and many other subjects.

- **Career Opportunities:**

Many careers require strong math skills, and a good understanding of math can open doors to various professional paths.

- **Life Skills:**

Mathematics helps with everyday tasks like budgeting, measuring ingredients, and understanding financial concepts.

- **Understanding the World:**

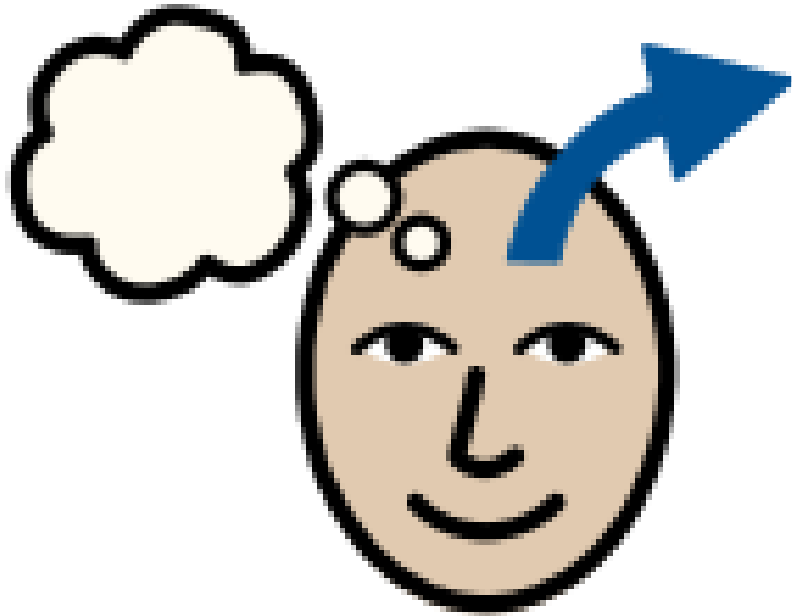
Mathematics provides a framework for understanding patterns, relationships, and predictions in the world around us.

True or false

Can you be 'bad at Maths?'



What is Maths?



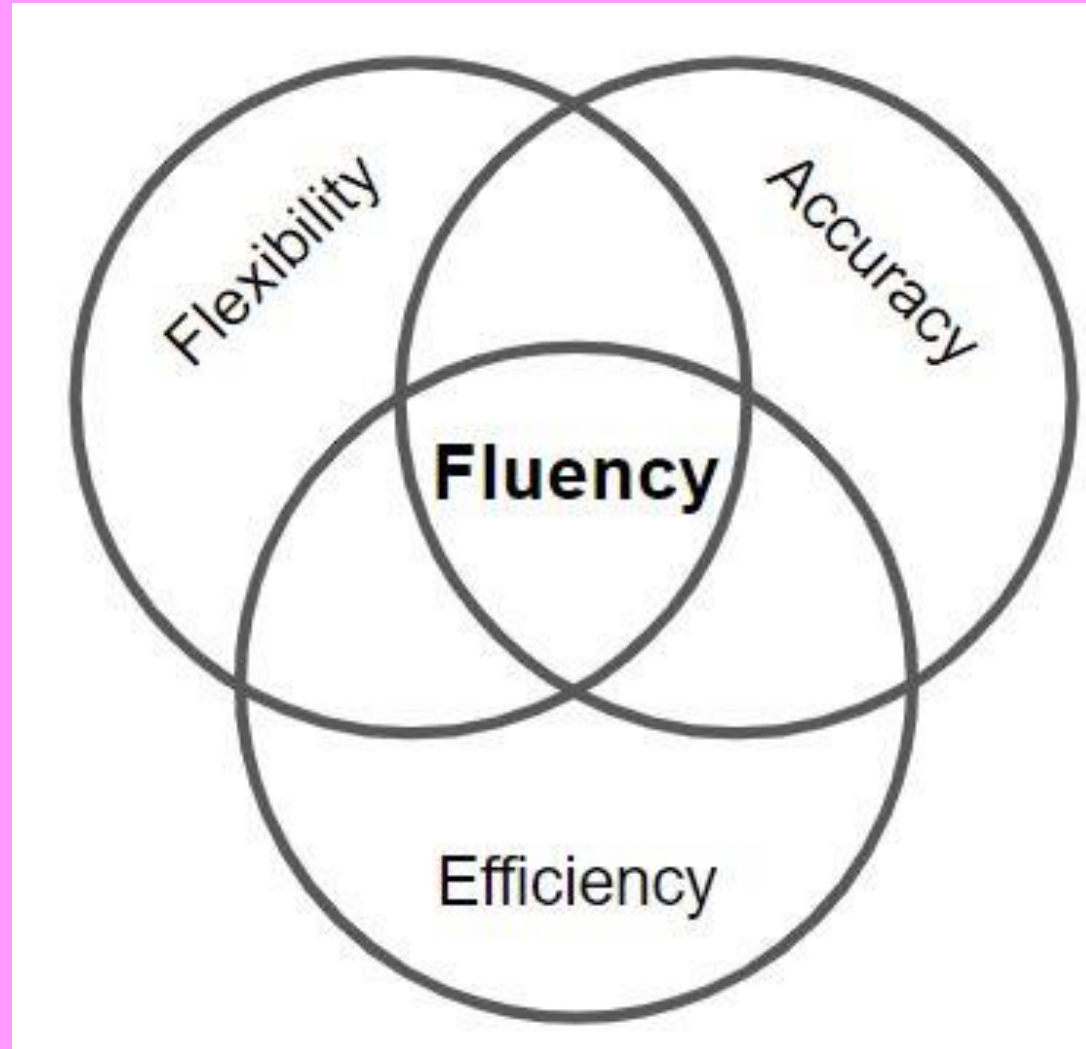
fluency

+



problem solving

Part 1 - Fluency



Part 2 – Problem solving

Explaining

Justifying

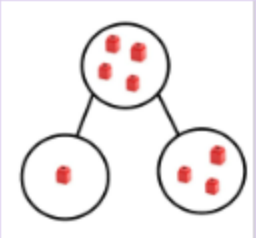
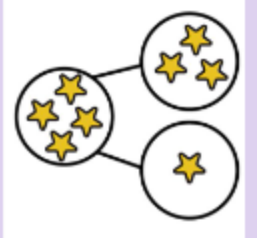
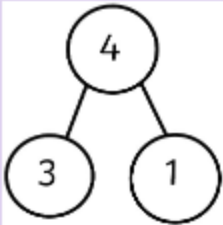
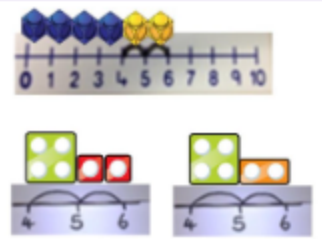
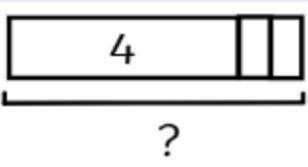

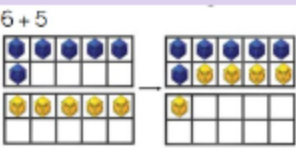
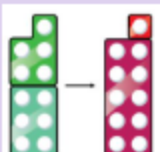
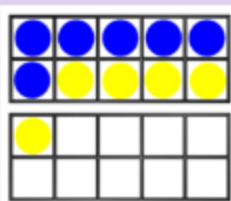
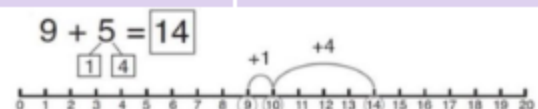
Decision making

Resilience

Critical thinking

Open ended

Addition

Concrete	Pictorial	Abstract			
<p>Part whole model Use cubes to add two numbers together as a group.</p>		<p>Use pictures to add two numbers together as a group.</p>		<p>Use the part-part whole diagram as shown to move into the abstract.</p>	
<p>Number line Start with the larger number in apparatus then count on the smaller number 1 by 1 to find the answer.</p>		<p>Start at the larger number on the number line and count on in ones or in one jump to find the answer.</p>		<p>Place the larger number in your head and count on the smaller number to find your answer</p>	$4 + 2 = 6$
<p>Ten frames Place the larger number in your head and count on the smaller number to find your answer</p> <p>Rekenrek</p> 	<p>6 + 5</p>  	<p>Use pictures/drawings or a number line. Regroup or partition the smaller number to make 10.</p>	 	<p>“If I am at seven, how many more do I need to make 10? How many more do I add on now?”</p>	$7 + 4 = 11$

How can I help at home?

- Fluency – number facts!

End of Key Stage 1

Year 4 Multiplication check

End of Key Stage 2

- Problem solving – life skills!

Support with growth mindset

To support

- Numbots
- TTRS (same login)
- Age related expectations (hand out)
- Calculation policy (hand out if ready)