



MATHEMATICS
MASTERY



Welcome to an

Introduction to Mathematics Mastery

Teaching Maths at
Campsbourne



Mathematics Mastery



Key Principles

- Success in mathematics for every child
- Close the attainment gap





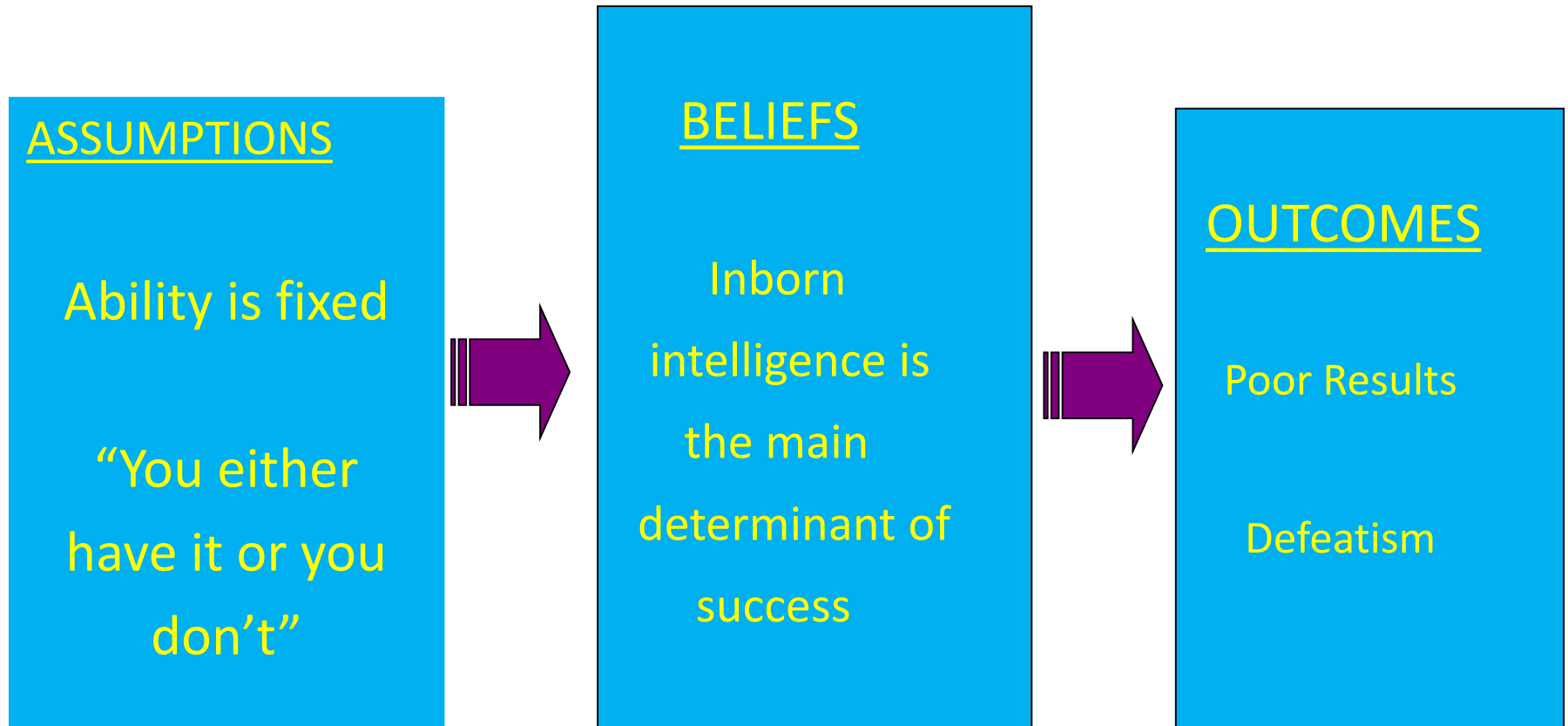
Two Beliefs about Intellectual Ability

- Innate Ability
- Effort-Based Ability



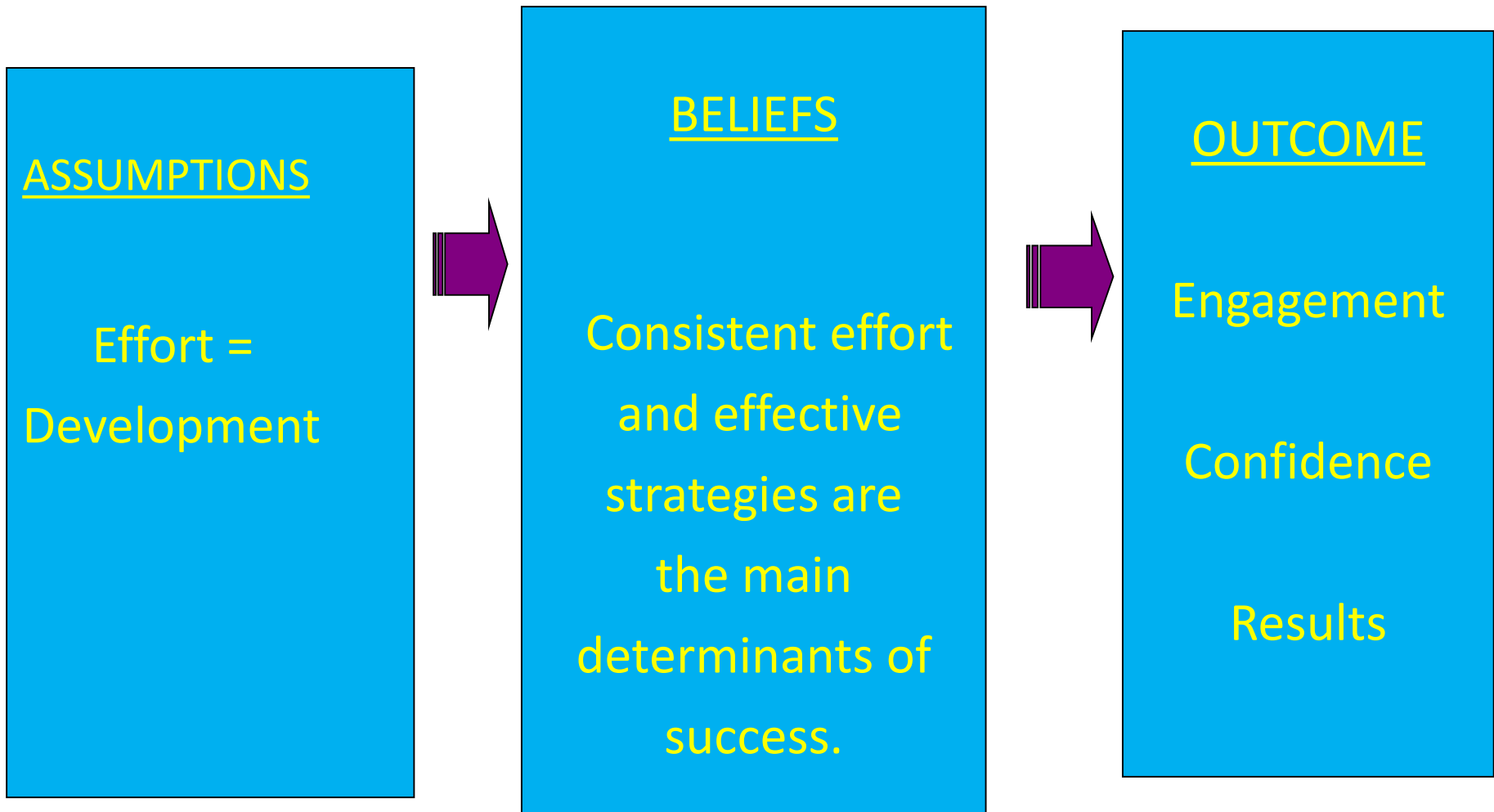


Belief in Innate Ability





Belief in Effort-Based Ability





Mathematics Mastery



There is no
'Maths gene'.

Hollywood hates maths clip:



Mathematics Mastery



Curricular principles

- Fewer topics in greater depth
- Mastery for all pupils
- Number sense and place value come first
Traditional methods taught practically
- Problem solving is central
Comprehension, calculation and problem solving developed simultaneously.



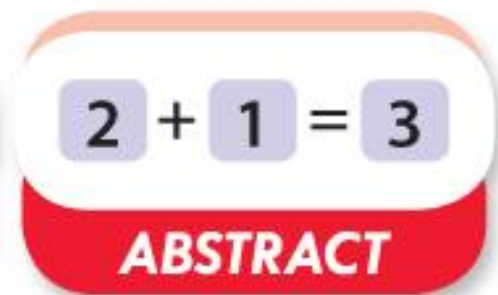
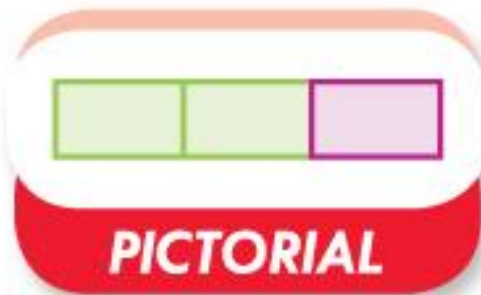
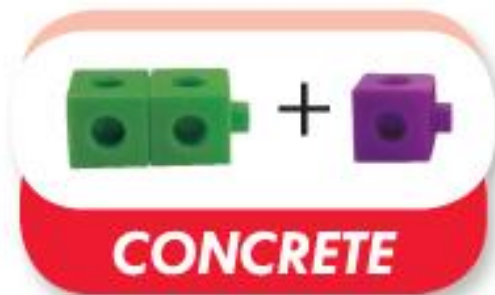
Mathematics Mastery



Key lesson features

- Mastering mathematical understanding

Concrete-Pictorial-Abstract approach





Mathematics Mastery



Key lesson features

- Mastering mathematical thinking

We want children to think like mathematicians. Not just DO maths...

- Mastering mathematical language

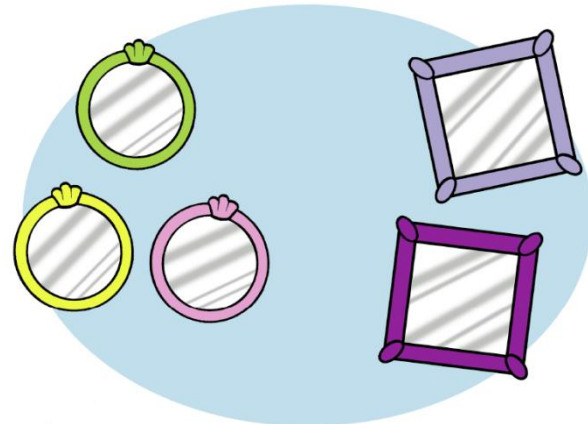
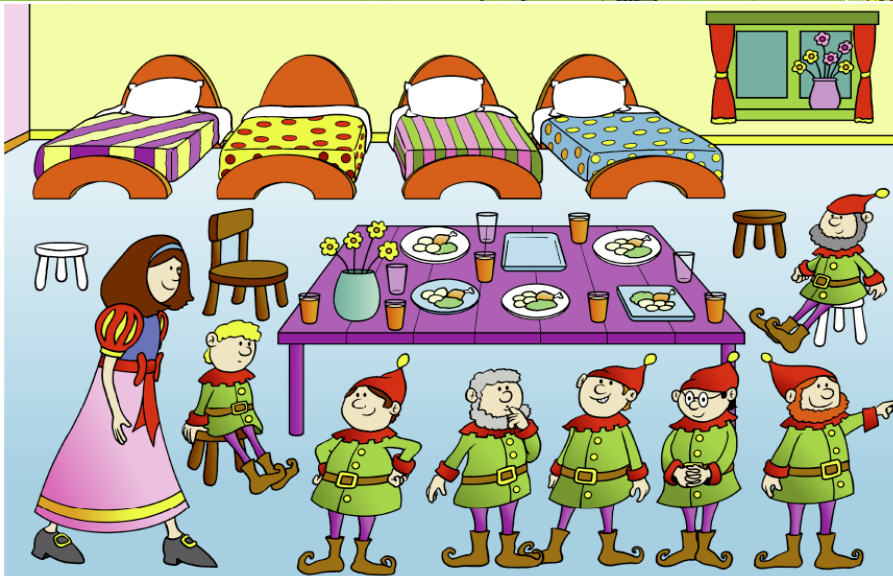
Sharing essential vocabulary, modelling clear sentence structures, paired language development activities

- Mastery for all: Structure of learning

systematic, scaffolded learning which builds skills in steps

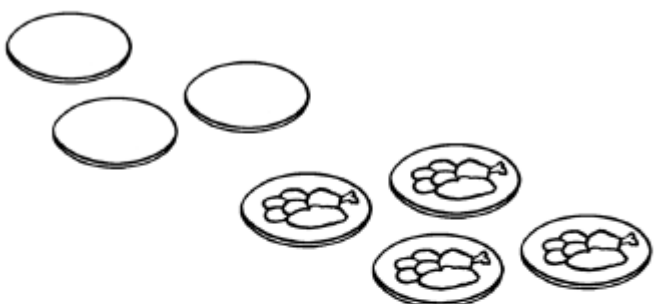


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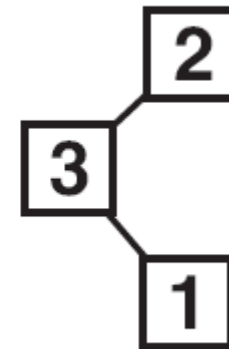
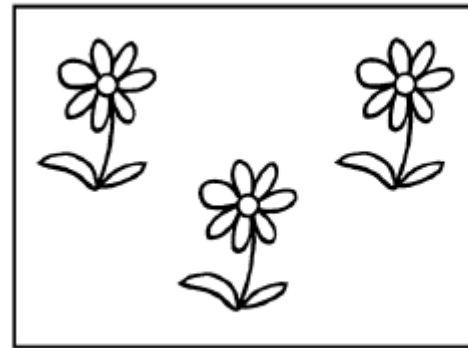
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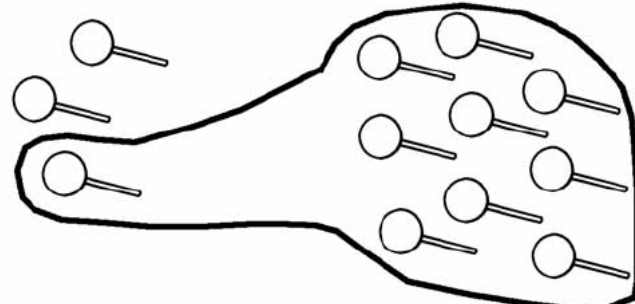
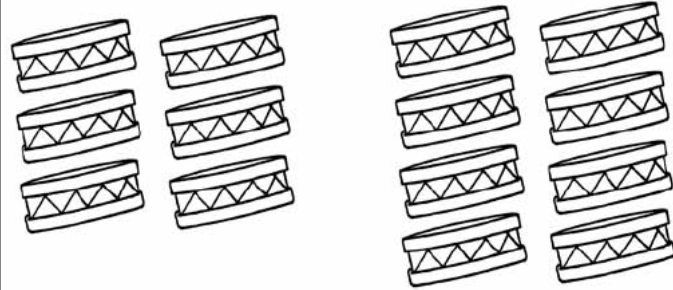


There are _____ full plates

There are _____ empty plates

There are _____ plates altogether



| | |
|---|--|
|  <p>$3 + 9 =$</p> |  <p>$6 + 8 =$</p> |
|---|--|

How You Can Help At Home

- Be **positive** Maths role models!
- **Counting**
 - ~ saying the number names in order
 - ~ counting objects one at a time (moving them, lining them up)
 - ~ counting fixed objects/pictures (lined, random)
 - ~ the last number said is how many are in the set
 - ~ moving the objects around does not change how many there are!