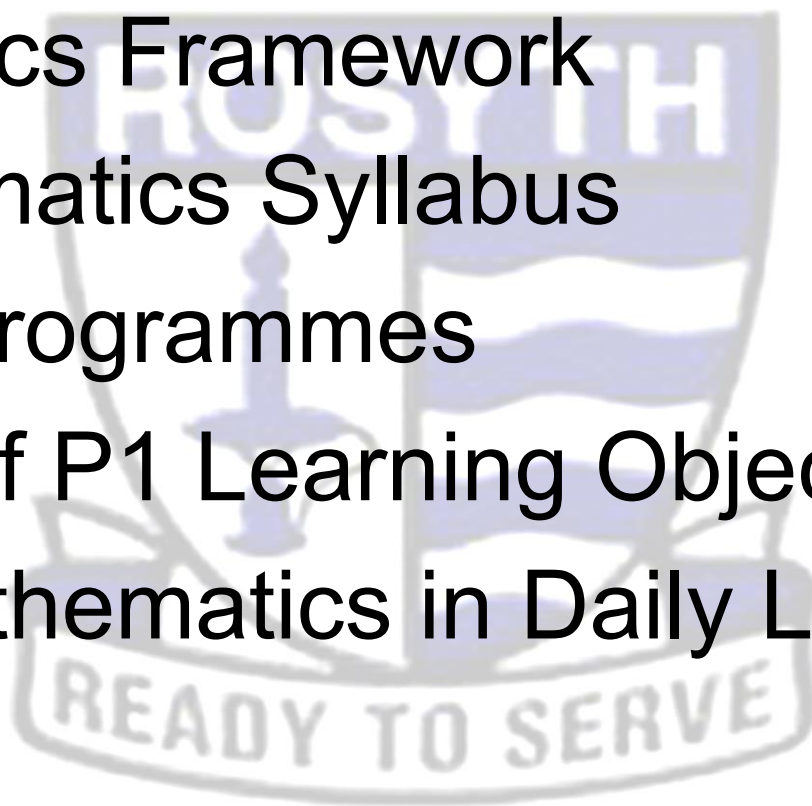# P1 Math Programme

- Aims of Mathematics Education
- Mathematics Framework
- P1 Mathematics Syllabus
- P1 Math Programmes
- Samples of P1 Learning Objectives
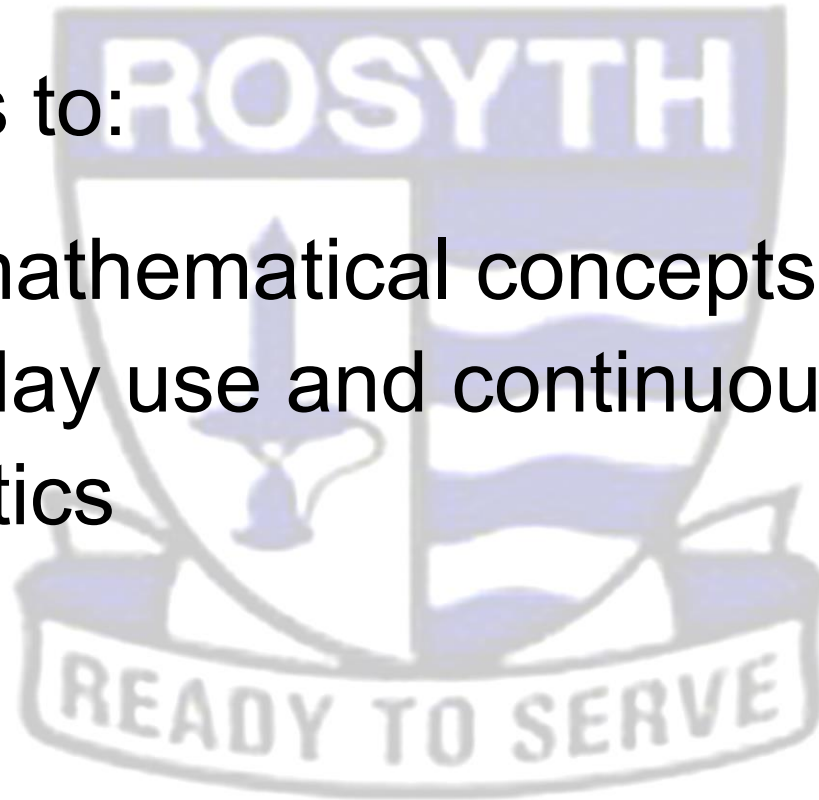- Relate Mathematics in Daily Life

Laying a Strong Foundation

Aims of the Primary Mathematics Syllabus:

For students to:

- Acquire mathematical concepts and skills for everyday use and continuous learning in mathematics

Laying a Strong Foundation

- Develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem-solving

- Build confidence and foster interest in mathematics.
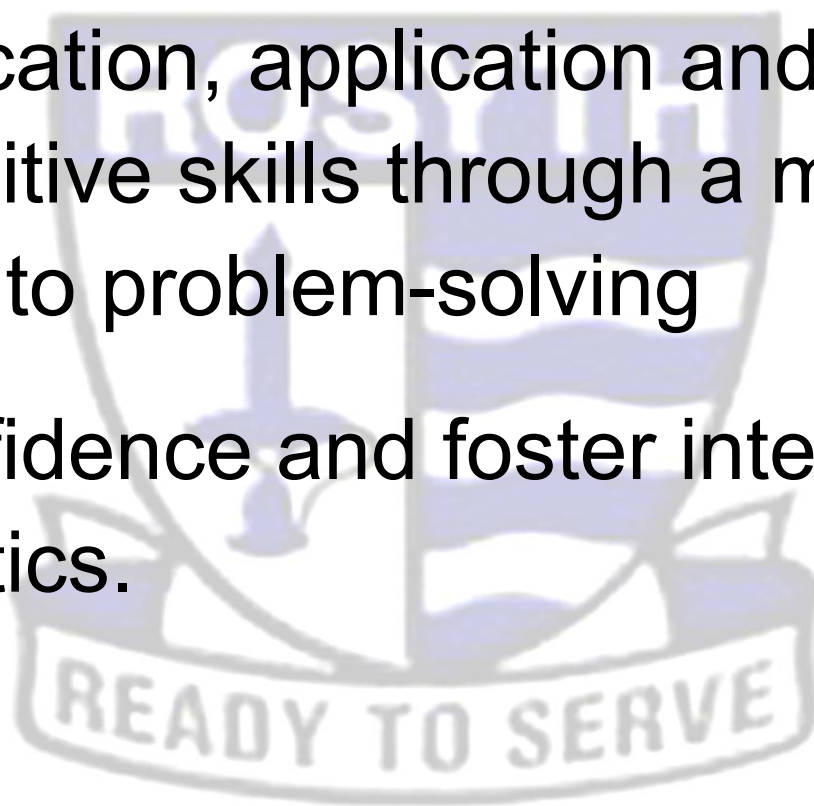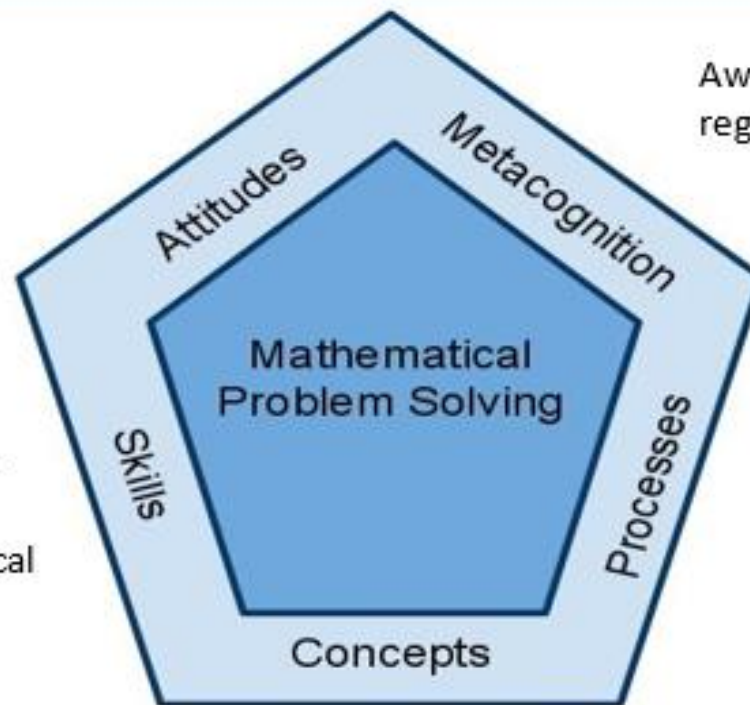
Mathematics Framework

P1 Syllabus

- <u>Whole Numbers</u>

  Numbers up to 100
  Addition and subtraction
  Multiplication and division

- <u>Measurement</u>
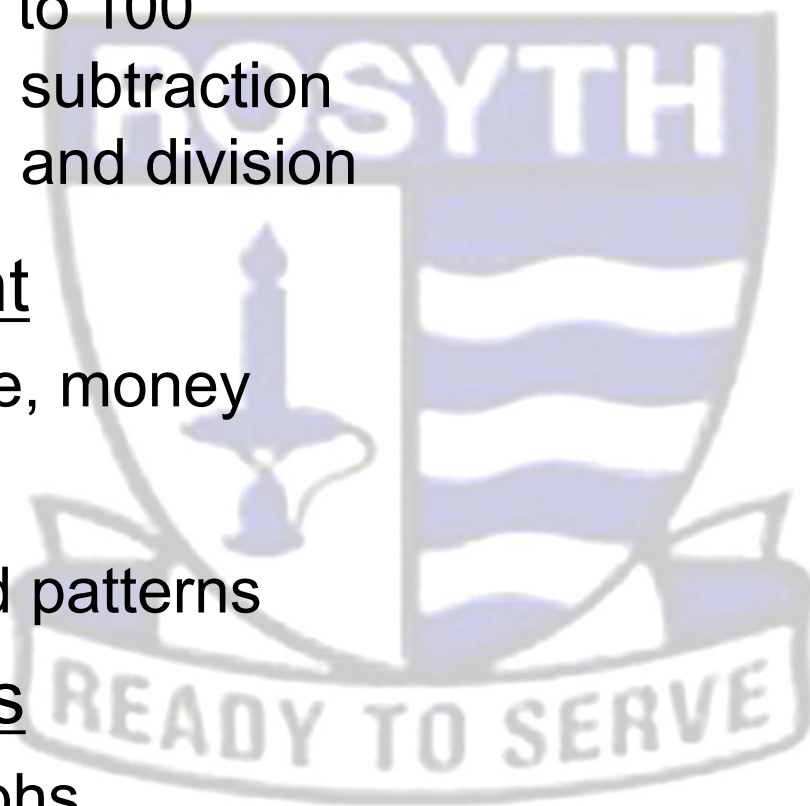
  Length, time, money

- <u>Geometry</u>

  Shapes and patterns

- <u>Data Analysis</u>
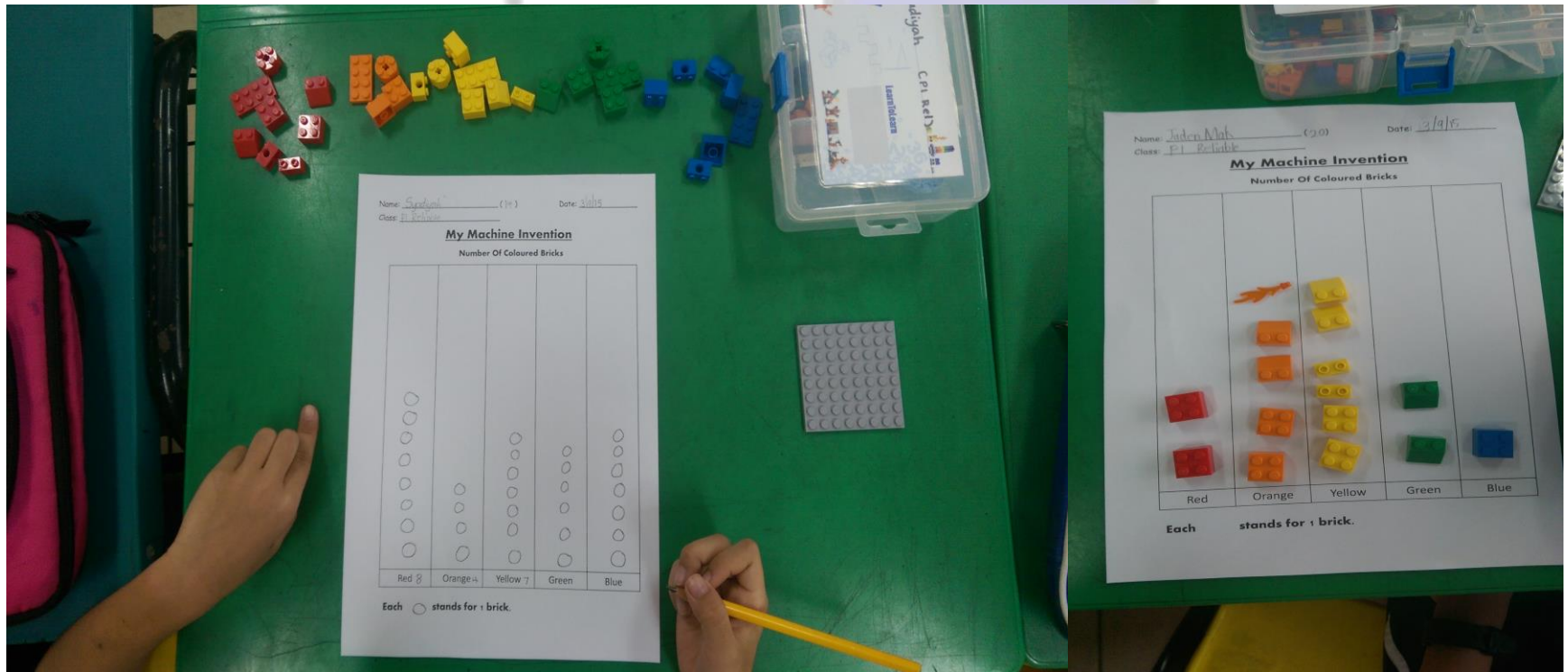
  Picture graphs

P1 Math Programme

- **Learner-centred activities: Concrete-Pictorial-Abstract approach (CPA)**

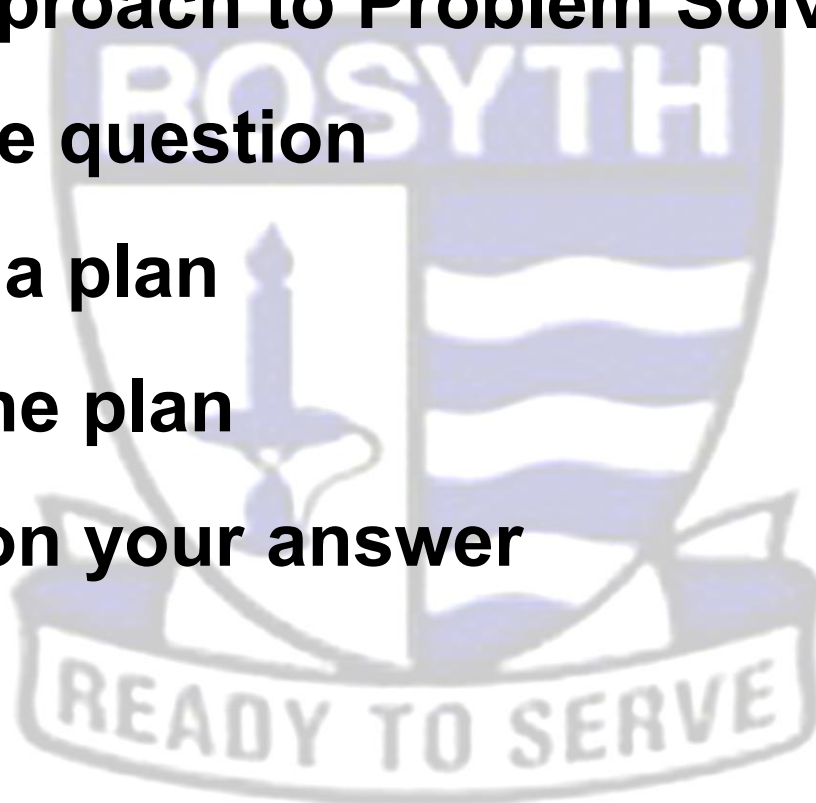- **Use of math manipulative for hands-on activities.**

P1 Math Programme

- **Use of manipulatives in Mathematics**

P1 Math Programme

- *STAR approach to Problem Solving:

S – Study the question

T – Think of a plan

A – Act on the plan

R – Reflect on your answer

P1 Math Programme

John has $28.

Peter has $3 less than John.

How much does Peter have?

| Study the problem	Think of a plan
J – $28 P – $3 less than J	Is it a addition problem? Is it a subtraction problem?
Reflect on your answer– Have I answered the question? Number (Does the final answer make sense?) Transfer (Did I transfer the numbers correctly?) Units (Did I leave the final answer in the correct units?) Calculations (Did I miscalculate?)	Act on the Plan 28 – 3 = 25 Peter has **$25.**

P1 Math Programme

Math Factual Fluency

What is math factual fluency?

Math factual fluency is the ability to recall the answers to basic math facts automatically and without hesitation.
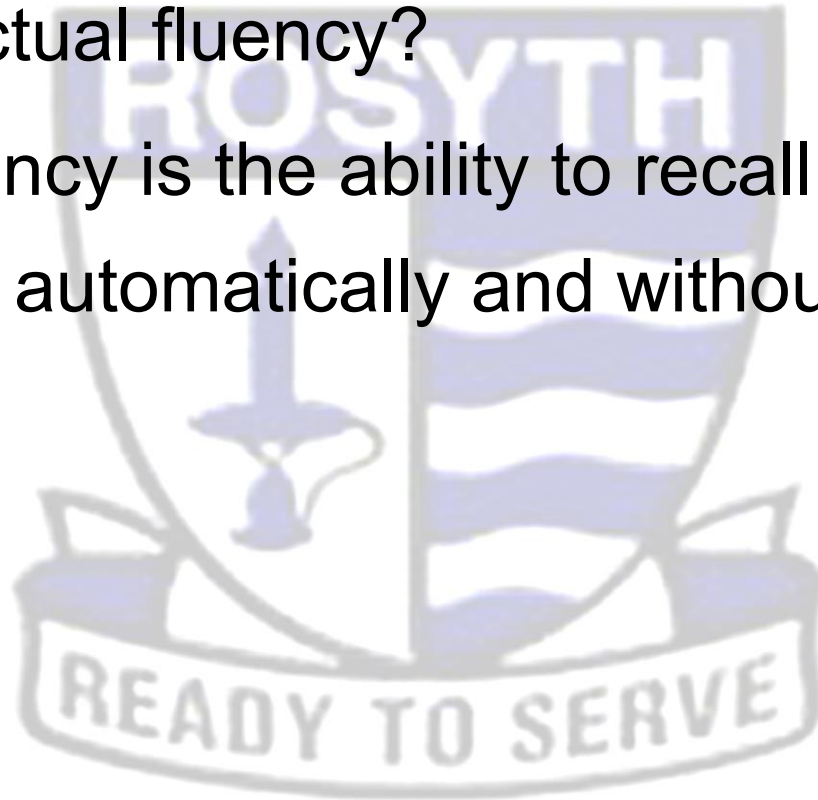
P1 Math Programme

Factual Fluency

Why is math fact fluency important?

Without the ability to retrieve facts directly or automatically, students are likely to experience a high cognitive load as they perform a range of complex tasks. The added processing demands resulting from inefficient methods such as counting (vs. direct retrieval) often lead to procedural errors.

P1 Math Programme

- **Learning Support Programme**

  Small group teaching

  More hands-on activities

Formative Assessment

Math Journal

Performance Tasks

Unit Review

Daily – Lesson
Questioning Techniques

Sample of a Unit Review

Teacher's Assessment

| Your child is able to:	Question	Getting there	Got it!
Subtract by 'taking away' from a set.	1		
Associate addition and subtraction with the part-whole concept of number bond.	2, 3		
Use the subtraction symbol (−) to write a mathematical equation.	4, 5, 6		
Teacher's Feedback (if any):			

Sample of P1 Learning Objectives (LO)

- Understand numbers up to hundred.

- Understand addition and subtraction.

- Add and subtract numbers.

- Understand multiplication and division.

- Identify, name, describe and sort shapes.

- Tell time to the hour/half hour.

- Measure and compare lengths using everyday objects.

- Read and interpret picture graphs.

Math in Daily Life

- Talk to your children about mathematics and help them to see the usefulness of math in our daily life.

- Addition and subtraction of money when your child purchase things

- Telling time
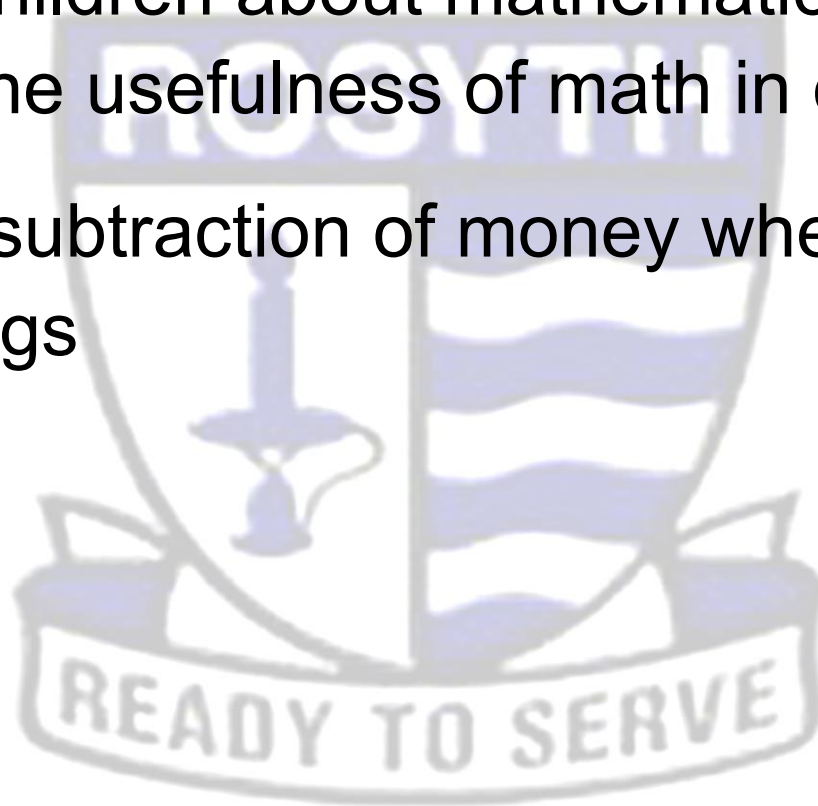
Thank you

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