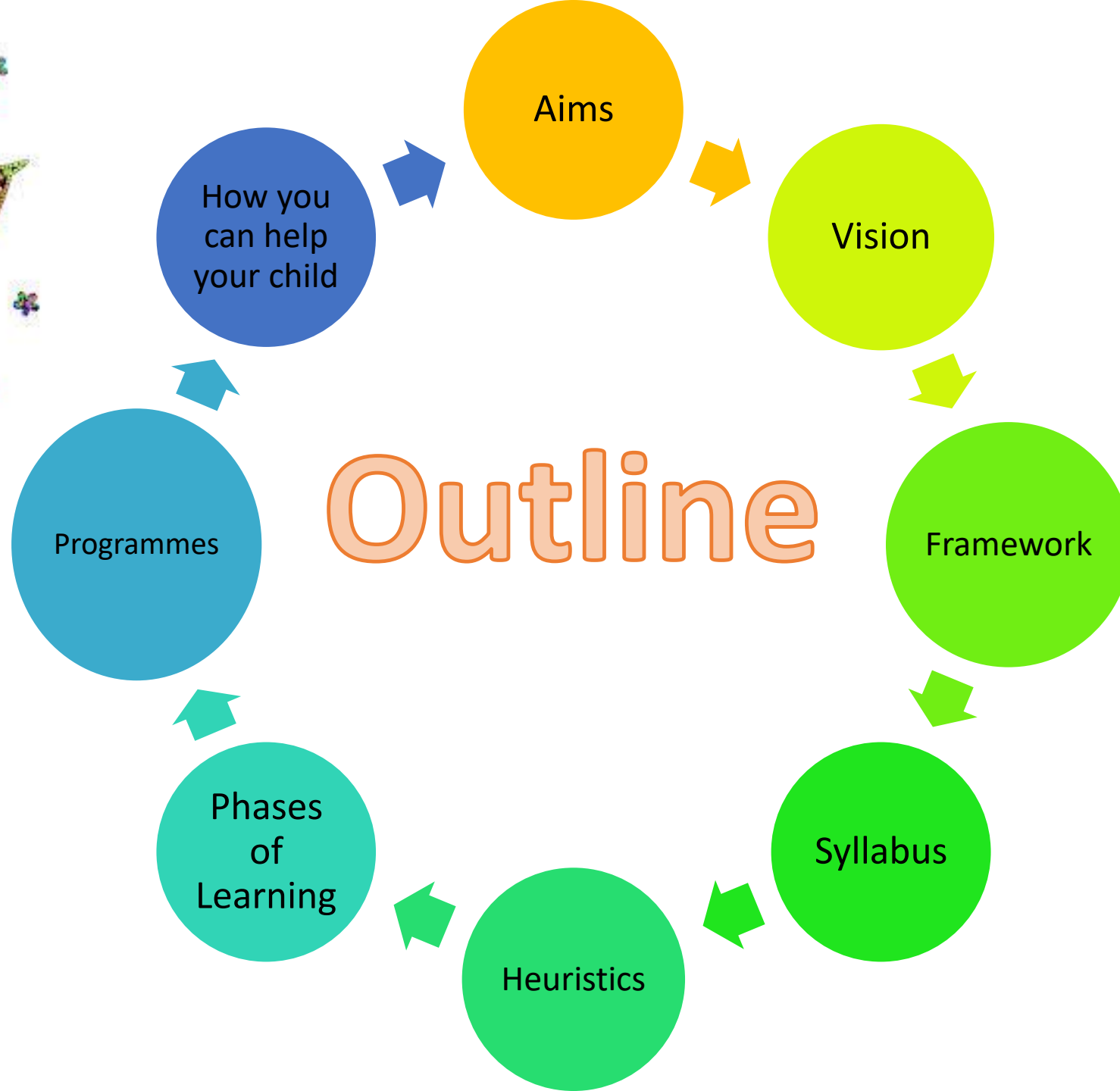




# MATHEMATICS

Information for Primary 5 Parents



# **Primary Mathematics** **(Laying a strong foundation)**

The Primary Mathematics syllabus aims to enable all students to:

- Acquire mathematical concepts and skills for everyday use and for continuous learning in Mathematics.
- Develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving; and
- Build confidence and foster interest in Mathematics

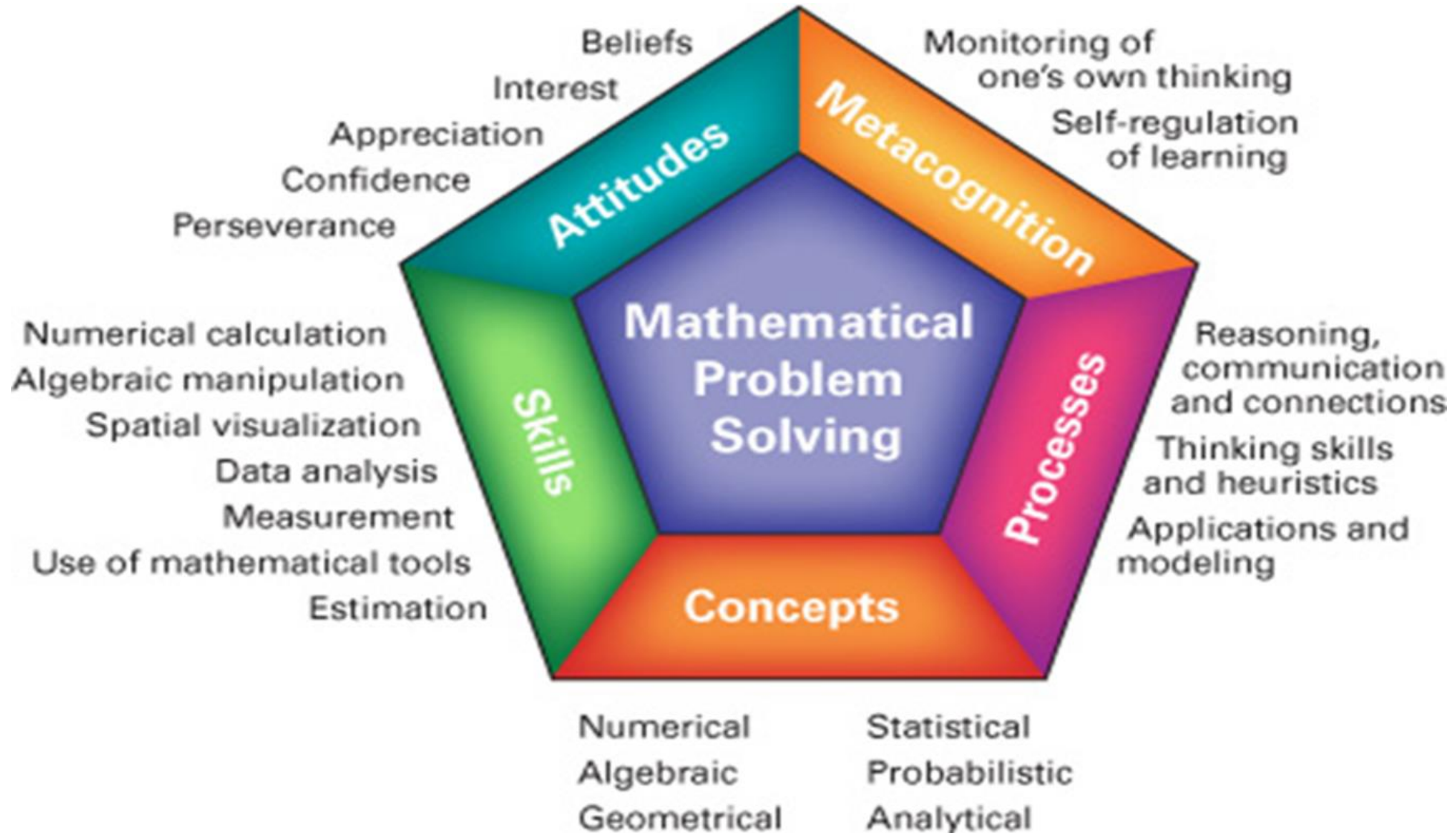


# **Ma Department Vision**

**A Creative, Innovative and Effective Mathematics  
Problem Solver**



# Ma Framework



*From the Singapore Ministry of Education*

# Ma Syllabus Organisation (S)

The syllabus is organised along three content strands with a listing of mathematical processes that cut across the 3 strands.

3 Content Strands + 1 Process Strand		
Number and Algebra	Measurement and Geometry	Statistics
<ul style="list-style-type: none"><li>Numbers Up to 10 Million</li><li>Four Operations – Whole Numbers</li><li>Fraction and Division</li><li>Four Operations – Fraction</li><li>Four Operations - Decimals</li><li>Percentage</li><li>Ratio</li><li>Rate</li></ul>	<ul style="list-style-type: none"><li>Area of Triangle</li><li>Volume of Cube and Cuboid</li><li>Angles</li><li>Triangles</li><li>Parallelogram, Rhombus and Trapezium</li></ul>	<ul style="list-style-type: none"><li>Average of a set of data</li></ul>
Mathematical Processes		
Reasoning, Communication, Connection, Application, Thinking Skills and Heuristics		

# Ma Syllabus Organisation (F)

The syllabus is organised along three content strands with a listing of mathematical processes that cut across the 3 strands.

3 Content Strands + 1 Process Strand		
Number and Algebra	Measurement and Geometry	Statistics
<ul style="list-style-type: none"><li>Numbers Up to 10 Million</li><li>Four Operations – Whole Numbers</li><li>Factors and Multiples</li><li>Concepts of Fractions</li><li>Equivalent Fractions</li><li>Mixed Numbers and Improper Fractions</li><li>Four Operations – Fractions</li><li>Decimals Up to 3 Decimal Places</li><li>Four Operations – Decimals</li><li>Rate</li></ul>	<ul style="list-style-type: none"><li>Time</li><li>Area and Perimeter</li><li>Volume of Cube and Cuboid</li><li>Perpendicular and Parallel Lines</li><li>Angles</li><li>Rectangle and Square</li></ul>	<ul style="list-style-type: none"><li>Tables, Bar Graphs and Line Graphs</li></ul>
Mathematical Processes		
Reasoning, Communication, Connection, Application, Thinking Skills and Heuristics		



# Heuristics (P1 to P5)

Draw a diagram/ model

Make a systematic list/ tabulation

Look for patterns

Guess and Check

Act it Out

Use Before-and-After Concept

Work Backwards

Restate the problem in another way

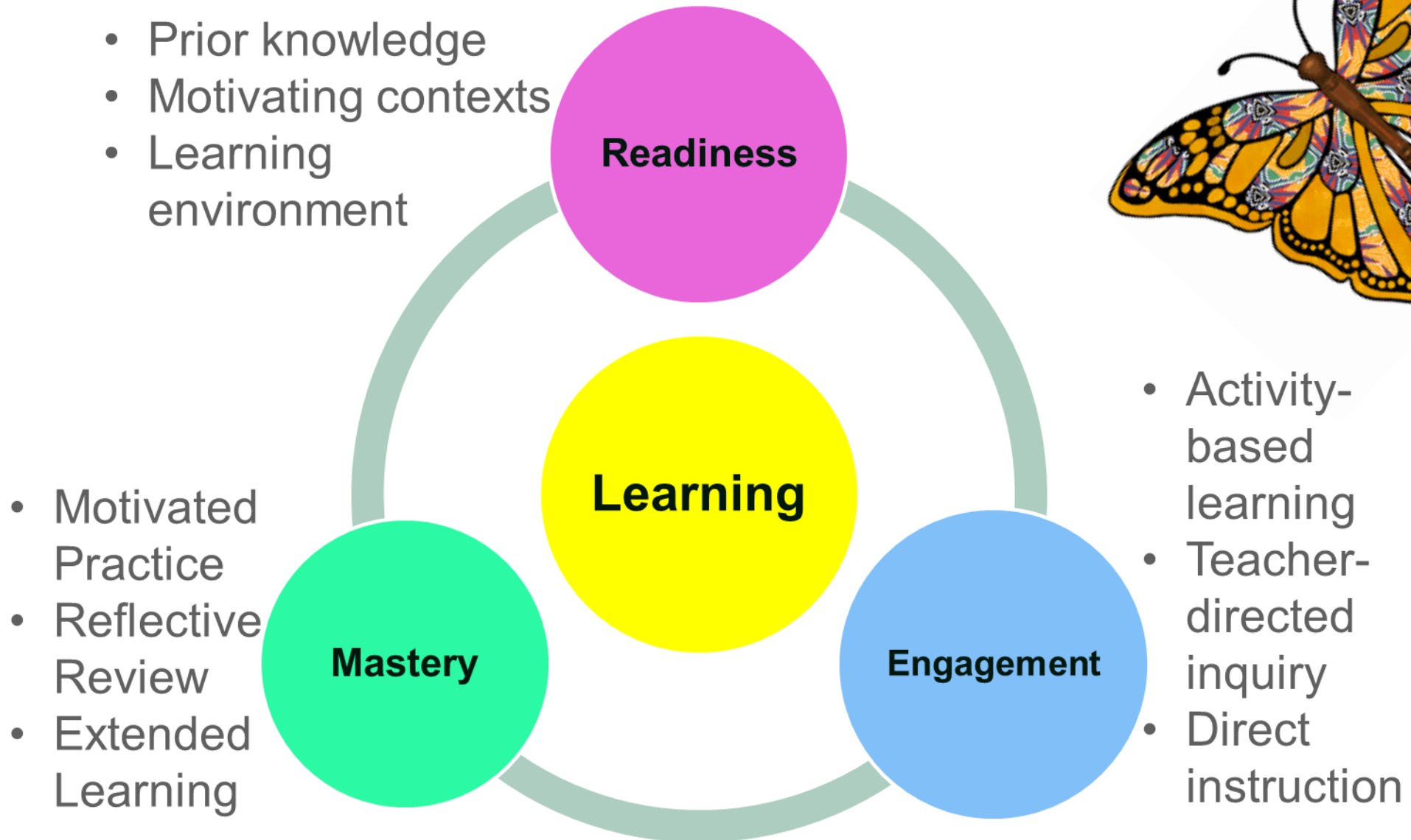
Simplify the problem

Make suppositions



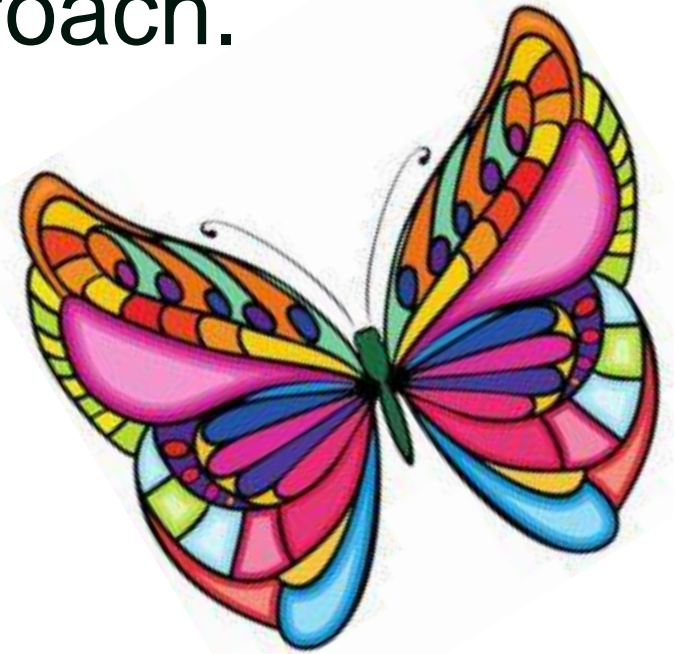


# Phases of Learning



# P5 Instructional Programmes

To help **students build strong foundation** in primary Math through a structured teaching sequence and supporting manipulatives and materials based on the concrete-pictorial-abstract (CPA) approach.



# Checkpoints

Daily  
assignments

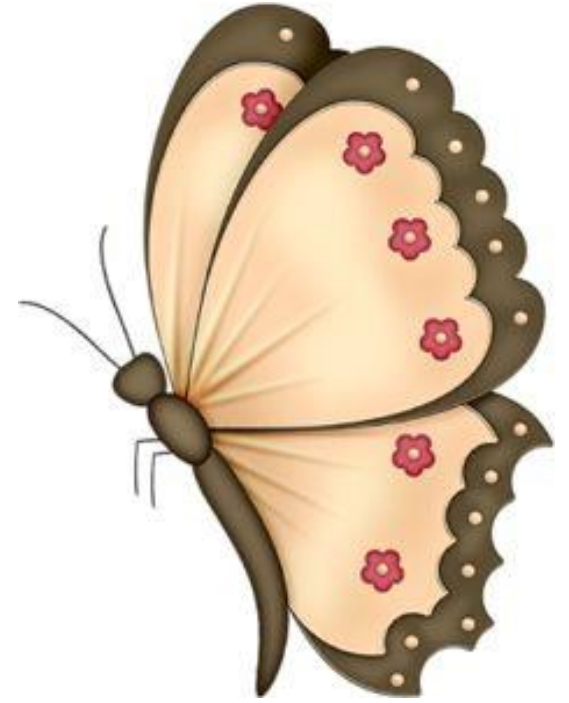
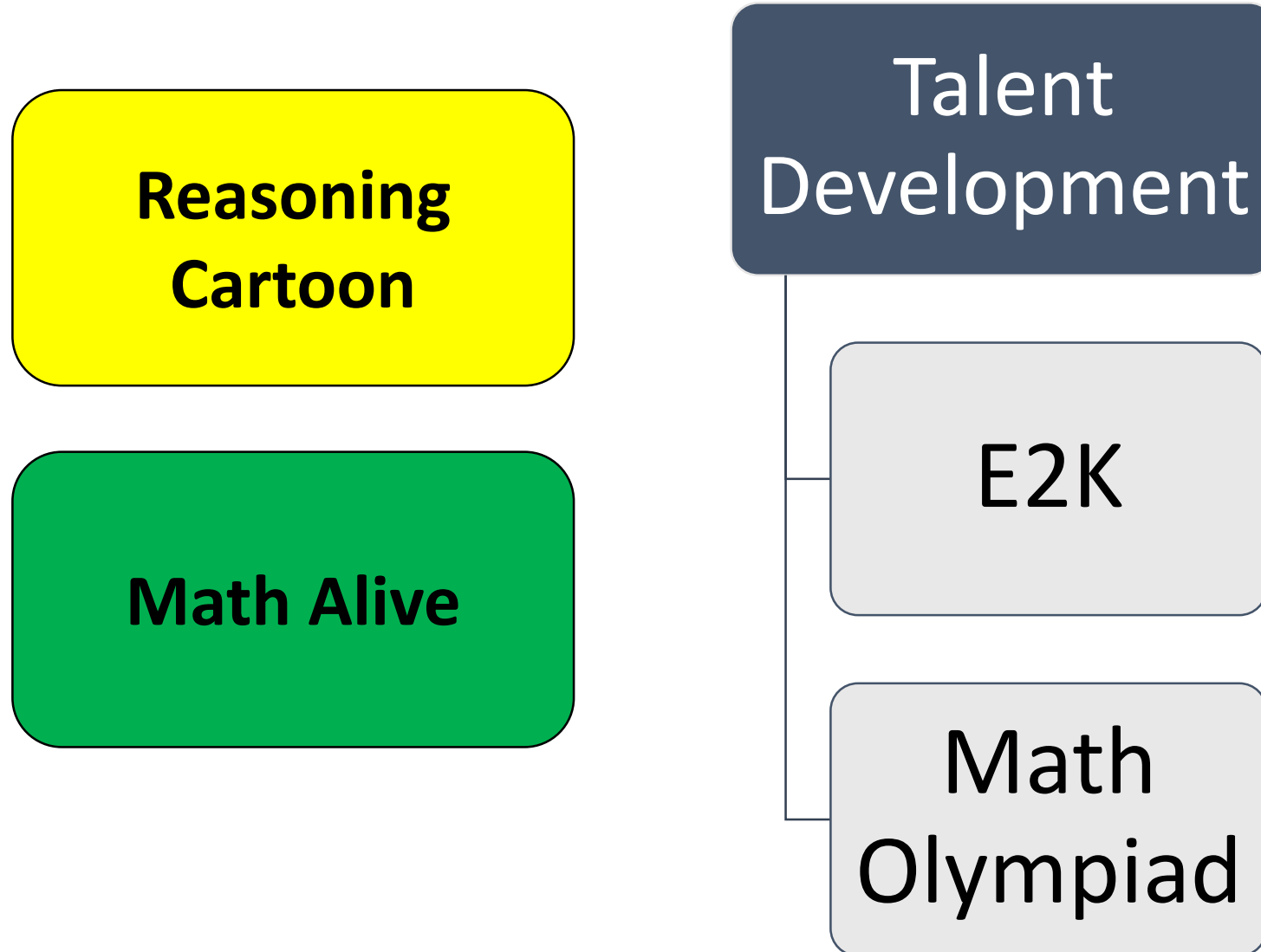
Experiential  
Learning  
activities

Class, group  
and individual  
tasks

Presentation

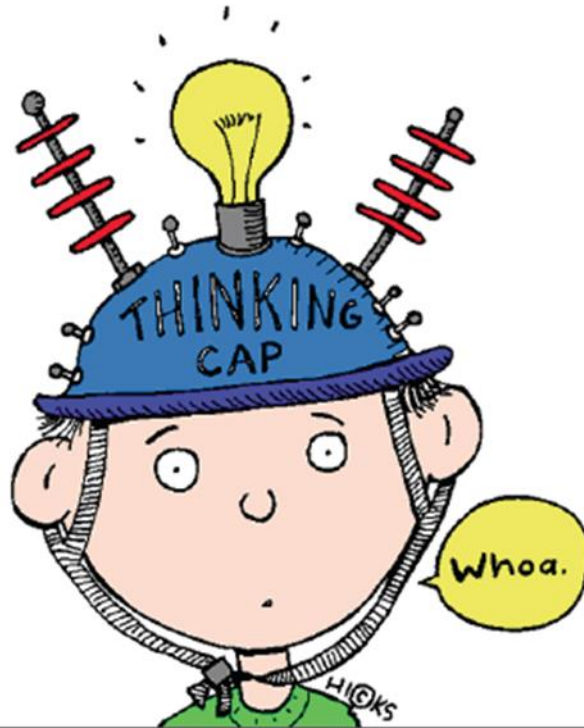


# Department Programmes



# How can you help your child in Mathematics

what  
do you  
**think** is  
going on?





# CONTACT DETAILS

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