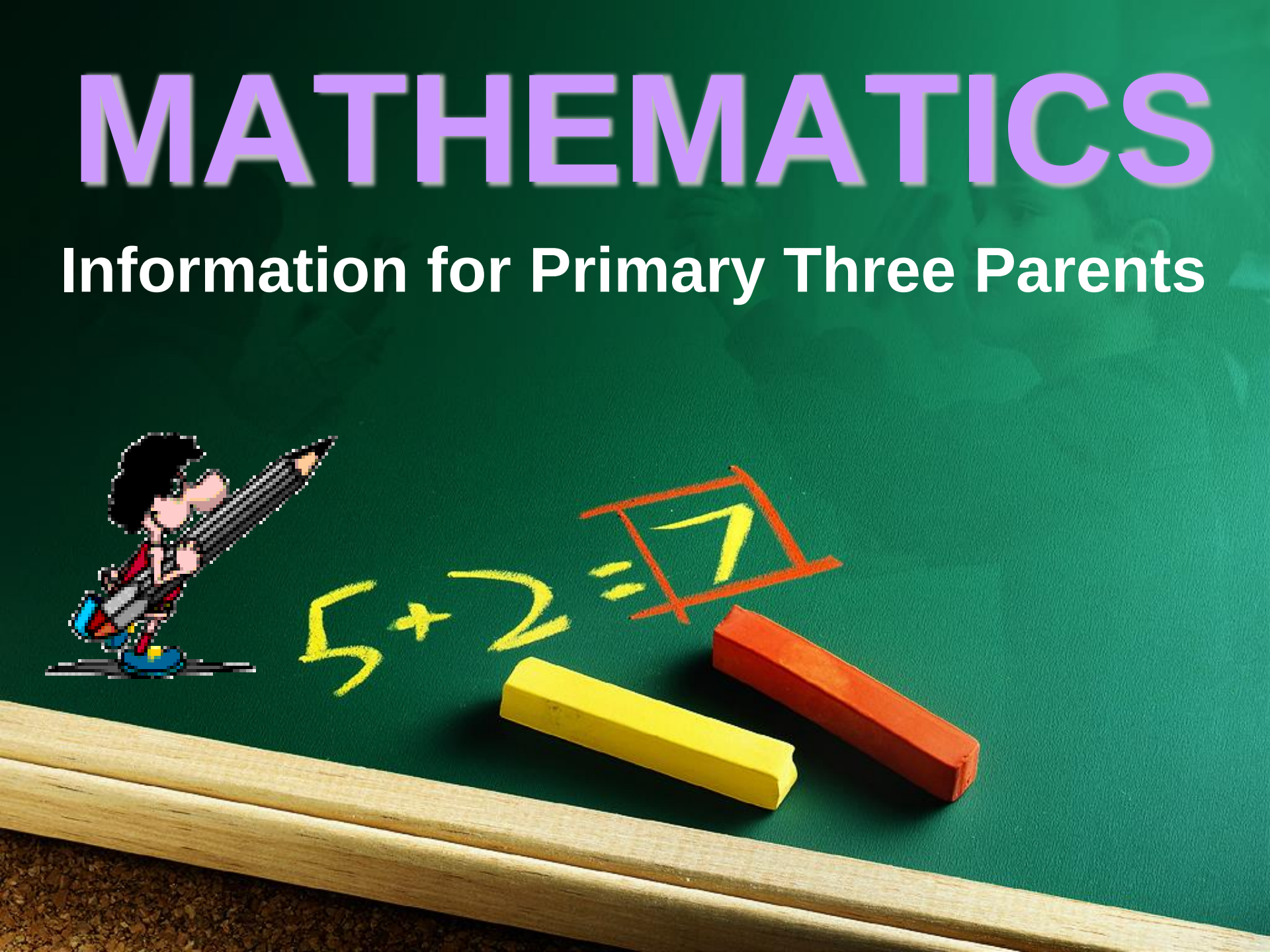
MATHEMATICS

Information for Primary Three Parents



Primary Mathematics (Laying a strong foundation)

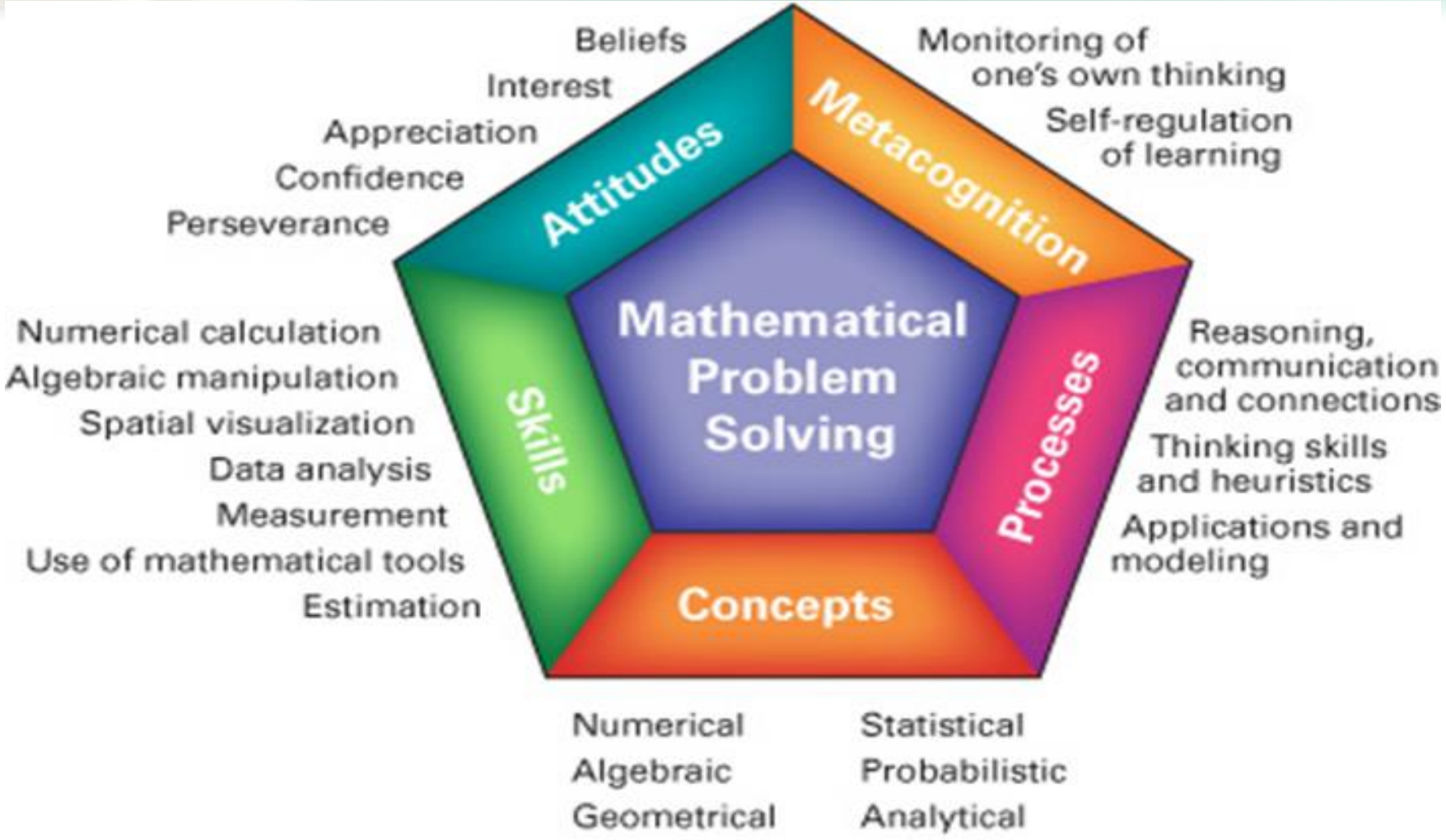
The Primary Mathematics syllabus aims to enable all students to:

- 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

Our Vision

A Creative, Innovative and Effective Mathematics Problem Solver

Mathematics Framework



From the Singapore Ministry of Education

Syllabus Organisation

The syllabus is organised along 3 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
Mathematical Processes		

P3 Syllabus

Number & Algebra (Strand)

- ✓Numbers up to 10 000
- ✓Addition of subtraction up to 10 000
- ✓Multiplication Tables of 6, 7, 8 and 9
- ✓Equivalent Fractions
- ✓Addition and Subtraction of Fractions

P3 Syllabus

Number & Algebra (Strand)

- ✓Money

P3 Syllabus

Measurement & Geometry (Strand)

- ✓Time
- ✓Length, Mass and Volume
- ✓Area and Perimeter
- ✓Angles
- ✓Perpendicular and Parallel lines

Statistics (Strand)

- ✓Bar Graphs

P3 Syllabus

Mathematical Processes

- ✓Reasoning, communication & connections
- ✓Applications
- ✓Thinking skills & heuristics

Heuristics (P1-P5)

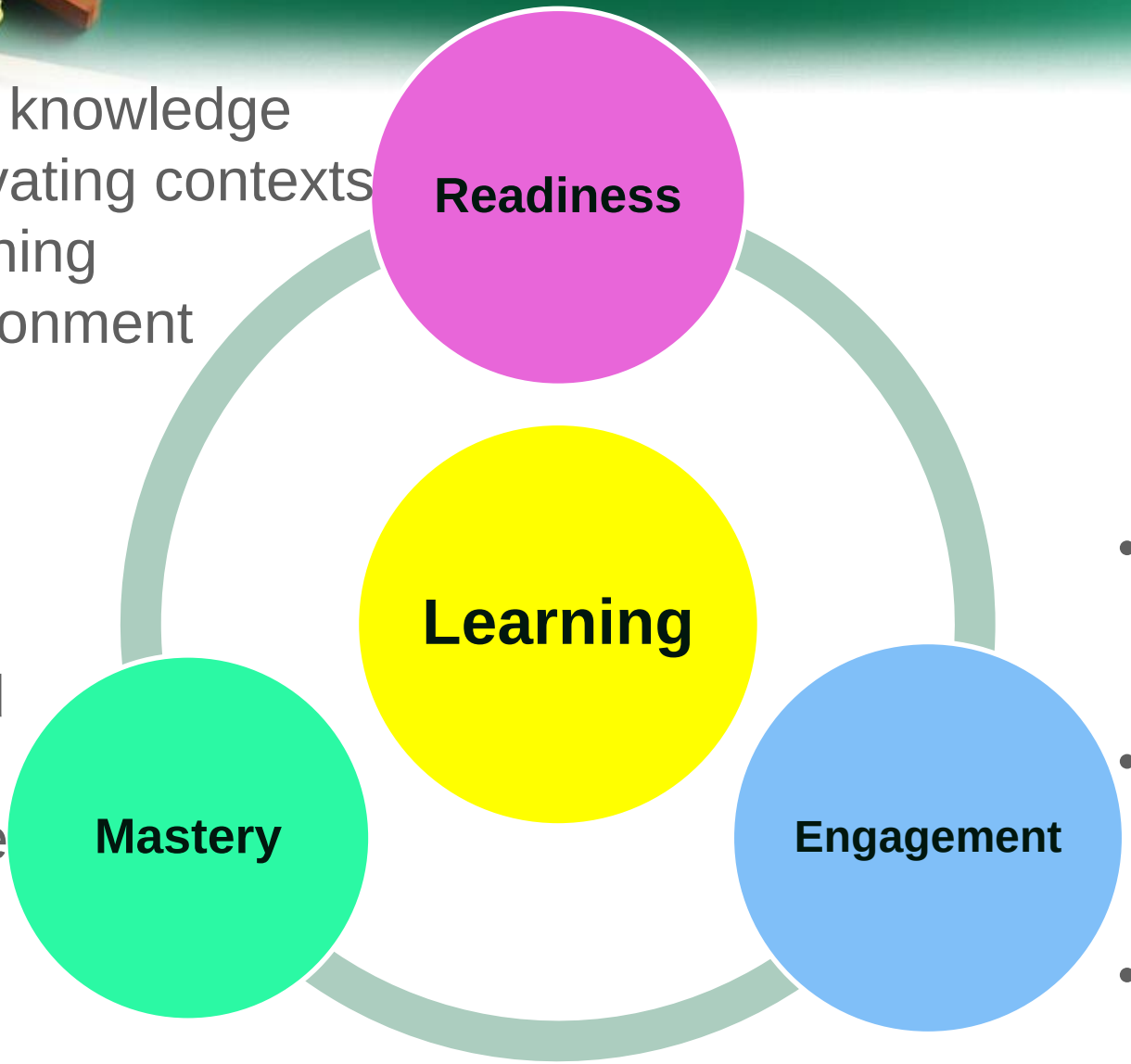
1. Draw a model/diagram
2. Make a systematic list/tabulation
3. Look for patterns
4. Guess and check
5. Act it out
6. Use before-after concept

Heuristics (P1-P5)

7. Work backwards
8. Restate the problem in another way
9. Simplify the problem
10. Make suppositions

Phases of Learning

- Prior knowledge
- Motivating contexts
- Learning environment



- Motivated Practice
- Reflective Review
- Extended Learning

- Activity-based learning
- Teacher-directed inquiry
- Direct instruction

P3 Programmes

Primary Mathematics Instructional Programme

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.

MATH KEY Programmes

Math Alive

Reasoning Cartoon

Integrated Trail

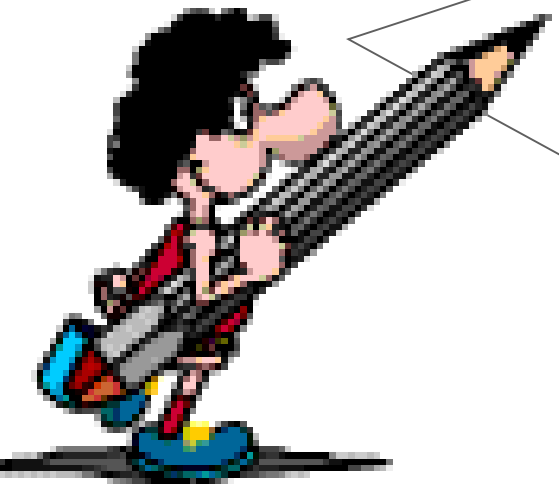
Talent Development

Math Olympiad

CPA Approach

Our approach when teaching Math concepts to young children is from ‘Concrete’ to ‘Pictorial’ to ‘Abstract’.

C-P-A Approach



Checkpoints

Platforms to check learning at Primary 3

- Daily Assignments
- Diagnostic Package
- Experiential Learning Activities
- Math Alive
- Reasoning Cartoon
- Open-ended Tasks
- Performance Tasks
- Unit Reviews

HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS

what
do you
think is
going on?

Contact Details

HOD Mathematics

- leng_sok_wah_Celina@schools.gov.sg

LH Mathematics

- lim_li_shan@schools.gov.sg

THANK YOU