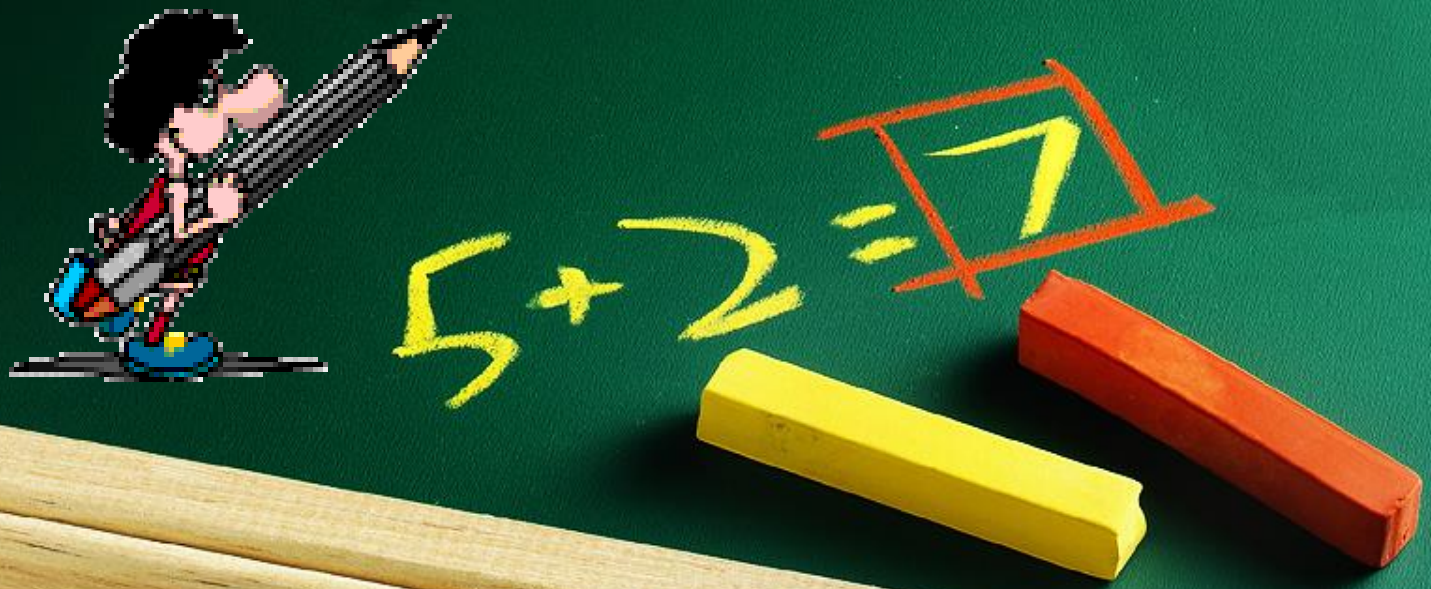
MATHEMATICS

Information for Primary Two Parents



Primary Mathematics (Laying a strong foundation)

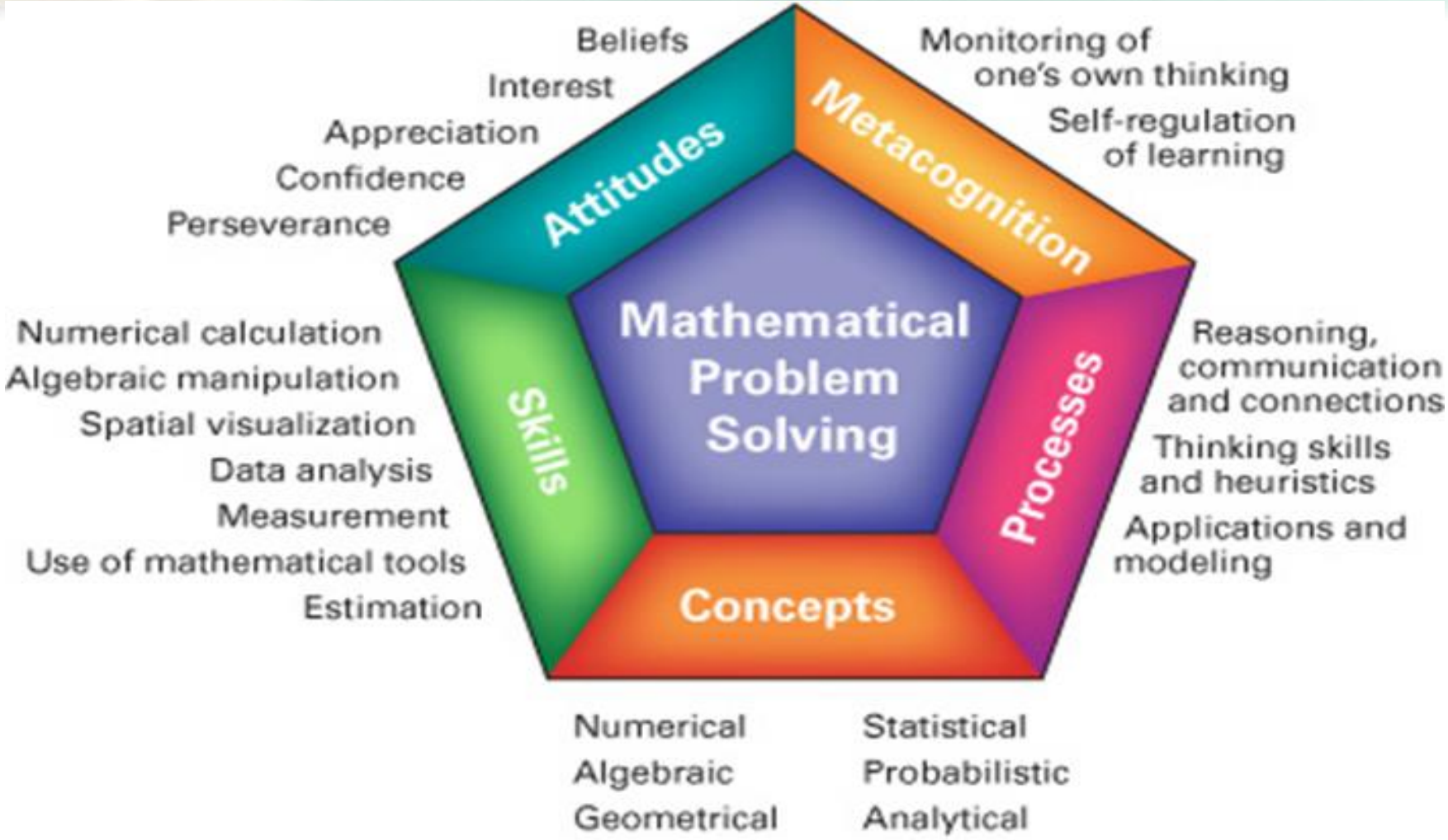
The Primary Mathematics syllabus aims to enable all students to:

- 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		

P2 Syllabus

Number & Algebra (Strand)

- ✓Numbers up to 1000
- ✓Addition & subtraction
- ✓Multiplication & division
- ✓Fraction of a whole
- ✓Addition and subtraction – Fraction
- ✓Money

P2 Syllabus

Measurement & Geometry (Strand)

- ✓Length, Mass & Volume
- ✓Time
- ✓2D shapes
- ✓3D shapes

P2 Syllabus

Statistics (Strand)

- ✓Picture graphs with scales

Mathematical Processes

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

Heuristics (P1-P5)

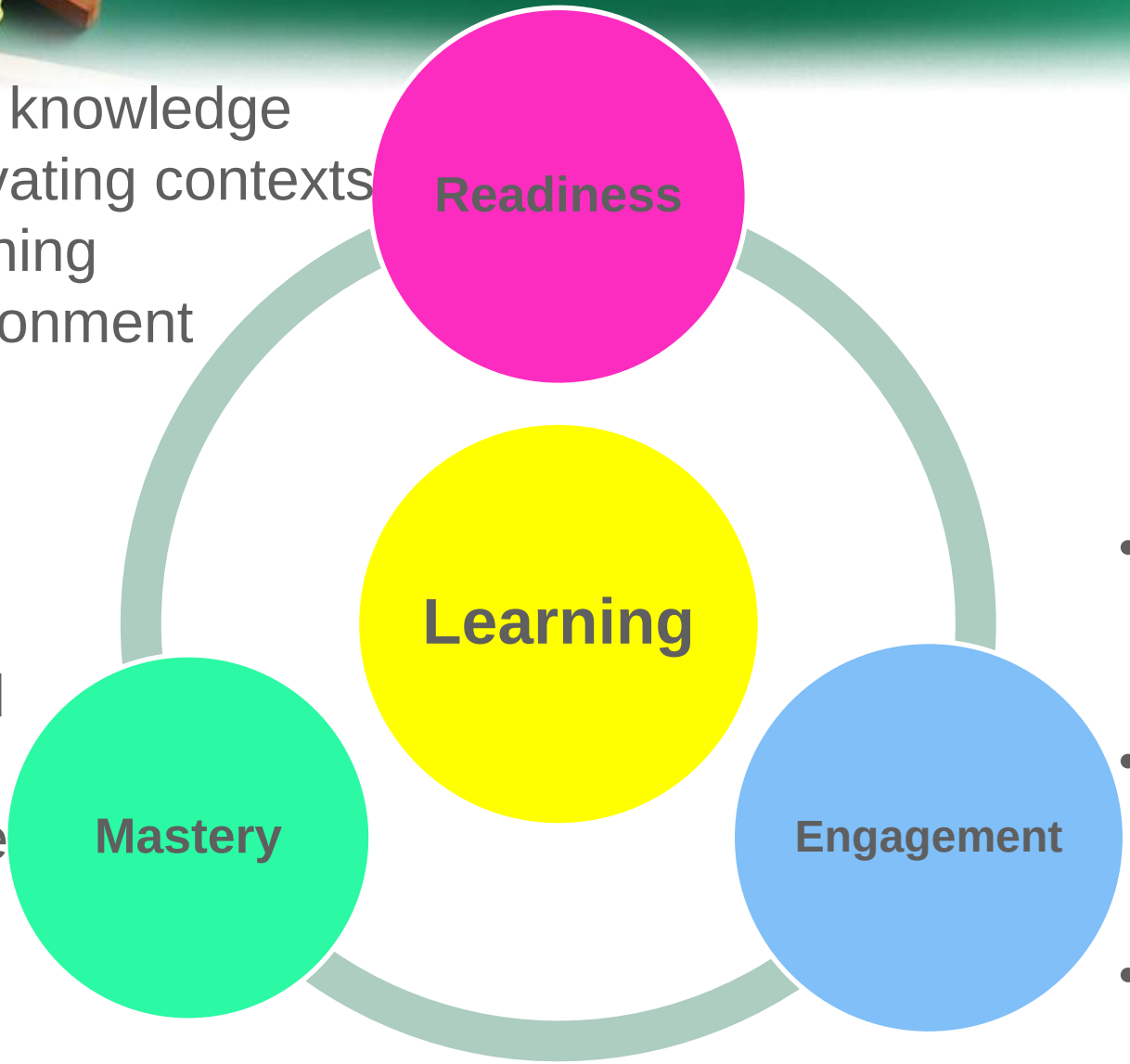
1. Draw a model/diagram
2. Make a systematic list/tabulation
3. Look for patterns
4. Guess and check
5. Act it out
6. Use before-after concept

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



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

- Motivated Practice
- Reflective Review
- Extended Learning

Learning Outcomes

1. Understanding numbers up to thousand
2. Solve mathematical problems involving addition and subtraction
3. Multiple and divide numbers within multiplication tables
4. Identify, name, describe and sort shapes and objects
5. Tell time to 5 minutes
6. Compare and order objects by length, mass, or volume
7. Read and interpret picture graphs with scales
8. Understand fractions

Checkpoints

Platforms to assess students' learning include:

- Performance task
- Experiential learning activities
- Presentation
- Group work
- Daily assignments

P2 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 Alive

Integrated Trail

Learning Support for Mathematics

Money Sense

Brain Games

Reasoning Cartoon

P2 Programmes

Hands-on

- Enhance conceptual understanding through use of the Concrete-Pictorial-Abstract approach
- Communicate their reasoning and connections through various mathematical tasks and activities.

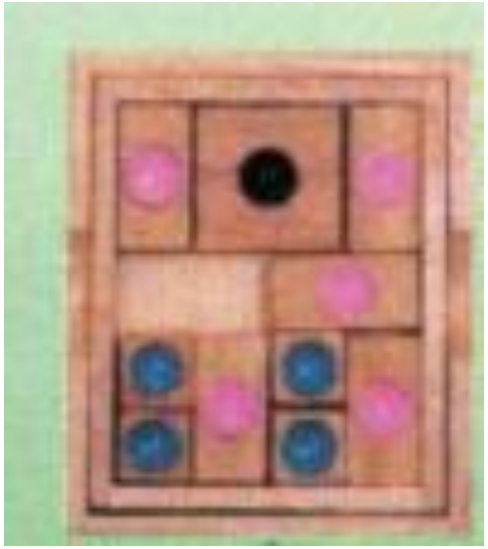
Integrated Trails

- To experience real-life Mathematics around them

P2 Programmes

BrainGames

- To develop the abilities to reason and apply problem solving skills through games



P2 Programmes

Learning Support for Math

- Provide help for students with weak basic numeracy skills
- Students receive more individual attention from teacher
- Students learn through hands-on experiences

P2 Programmes

Money Sense!

- Able to count amount of money in dollars up to $100
- Understand the value of money
- Build confidence and foster interest in Mathematics
- Reward system
- Make sound decision

P2 Programmes

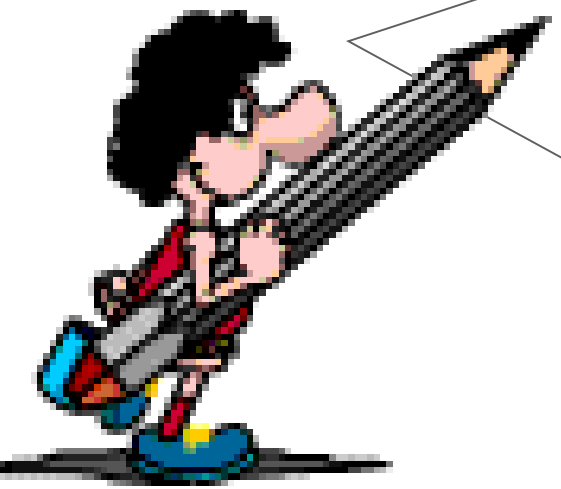
Reasoning Cartoon

- Develop thinking, reasoning, communication, application and metacognitive skills with the help of our cartoon characters, Chendol, Kachang, Cheng Teng and Cha Cha.

CPA Approach

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

C-P-A Approach



Experiential Learning

Contact Details

HOD Ma

- leng_sok_wah_celina@schools.gov.sg

LH Ma

- Lim_li_shan@schools.gov.sg

THANK YOU