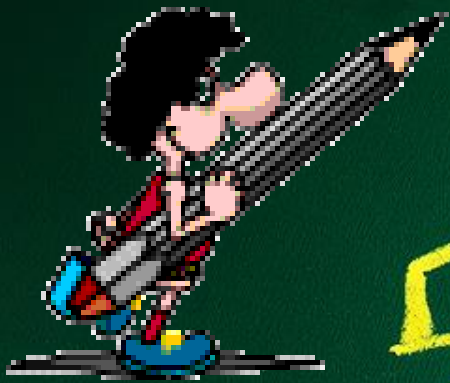


MATHEMATICS

Information for Primary Three Parents



$$5 + 2 = 7$$





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

The Primary Mathematics syllabus aims to enable all students to:

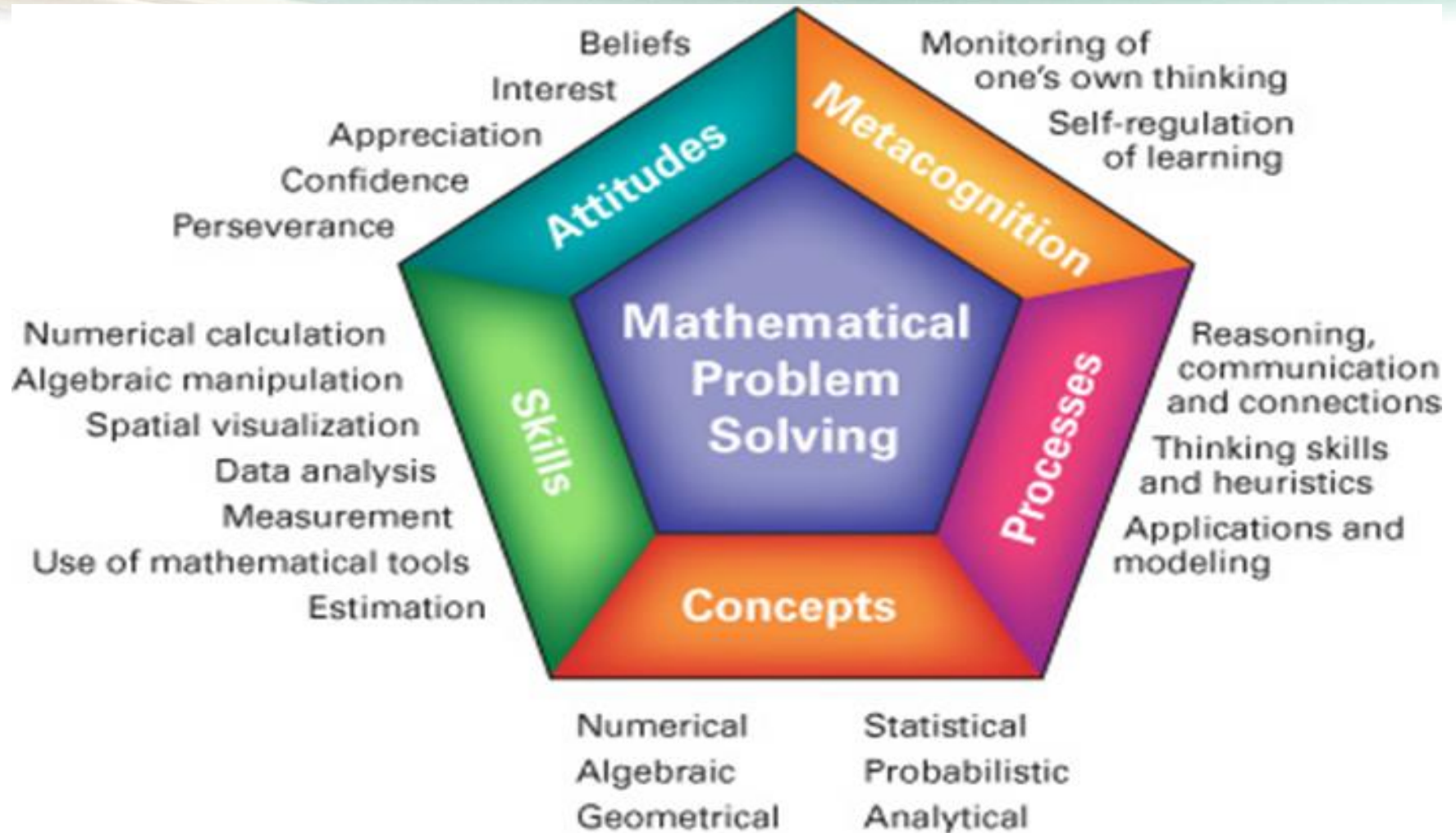
- Acquire mathematical concepts and skills for everyday use and for continuous learning in Mathematics.
- Develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving; and
- Build confidence and foster interest in Mathematics



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

Readiness

Learning

Mastery

Engagement

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

- Motivated Practice
- Reflective Review
- Extended Learning



CPA Approach

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

C-P-A Approach





Math Alive

**Reasoning
Cartoon**

STEAM Week

**Talent
Development**

**Math
Olympiad**



Checkpoints

Platforms to check learning at Primary 3

Daily
Assignments

Diagnostic
Package

Experiential
Learning
Activities

Math Alive

Reasoning
Cartoon

Open-ended
Tasks

Unit
Reviews



Weighting

Term 1	Term 2	Term 3	Term 4
10%	15%	10%	65%
1 WA	1 WA	1 WA	SA2

Weighted Assessment – WA

Semestral Assessment 2 – SA2





Exam Format – SA2

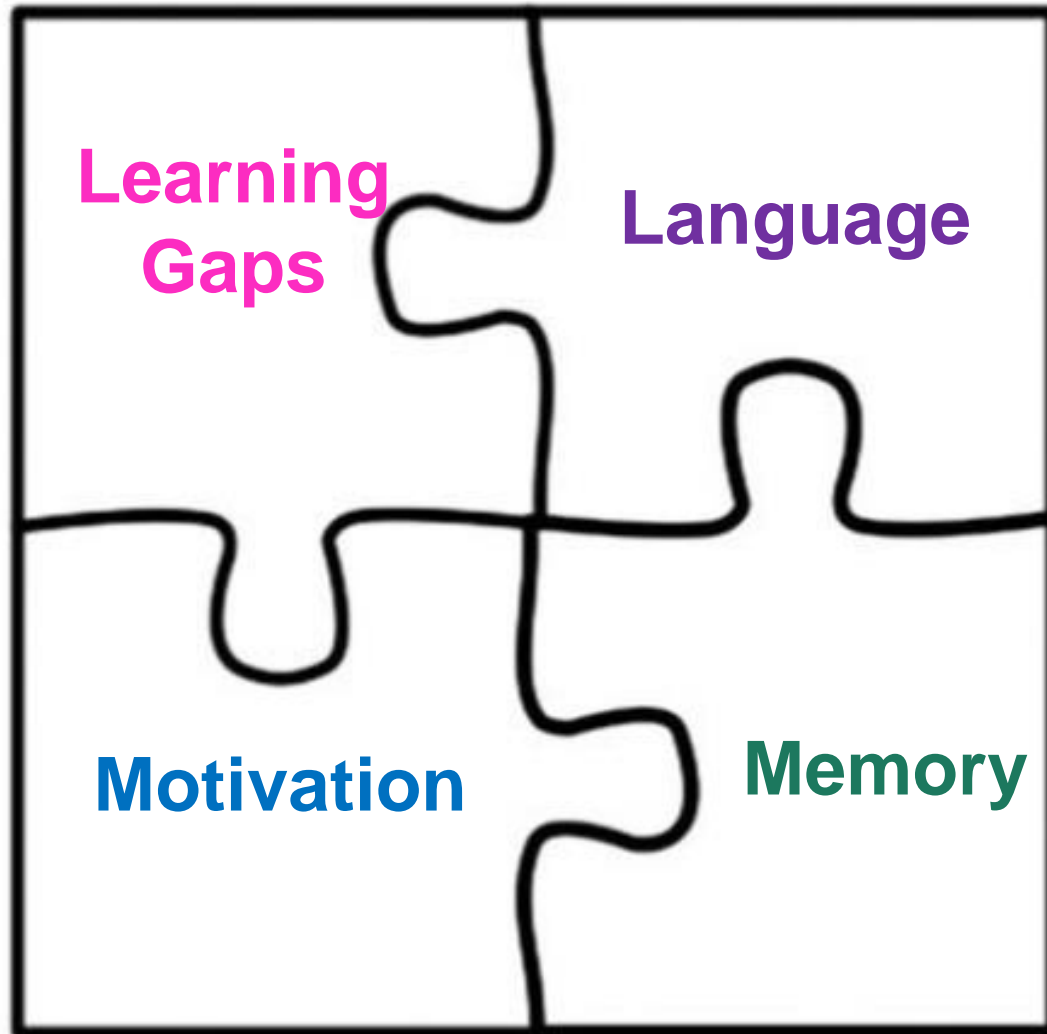
Section A	Section B	Section C
15 MCQ	15 SAQ	5 LAQ
30 Marks	30 Marks	20 Marks
Total Marks: 80		
Duration: 1 hour 45 minutes		

MCQ – Multiple Choice Question

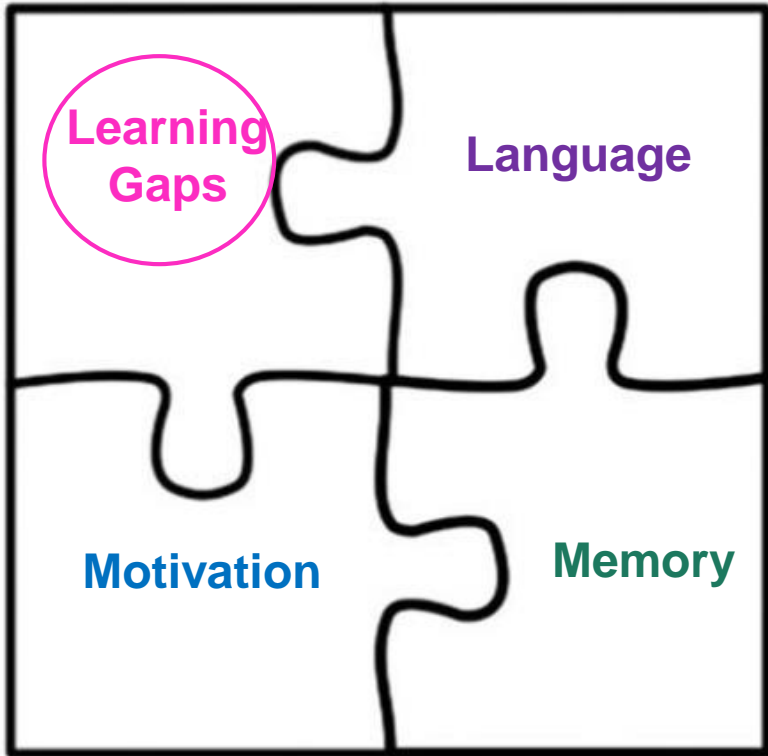
SAQ – Short-answer Question

LAQ – Long-answer Question

HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS

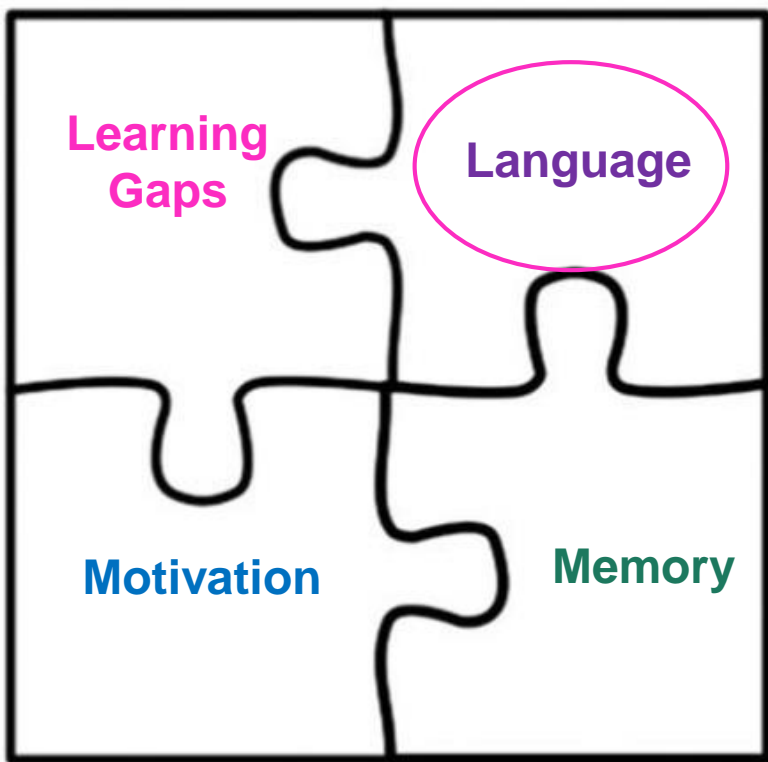


HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



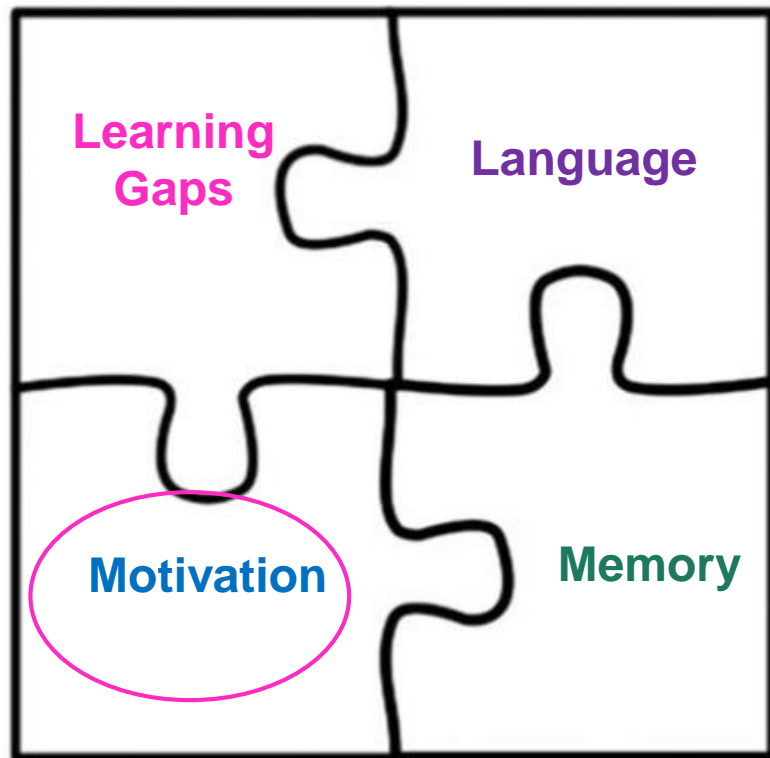
- Start with a smaller number (revisit what they have learnt in Primary 2)
- Start with concrete materials
- Scaffold their learning of new knowledge
- Provide regular practices

HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



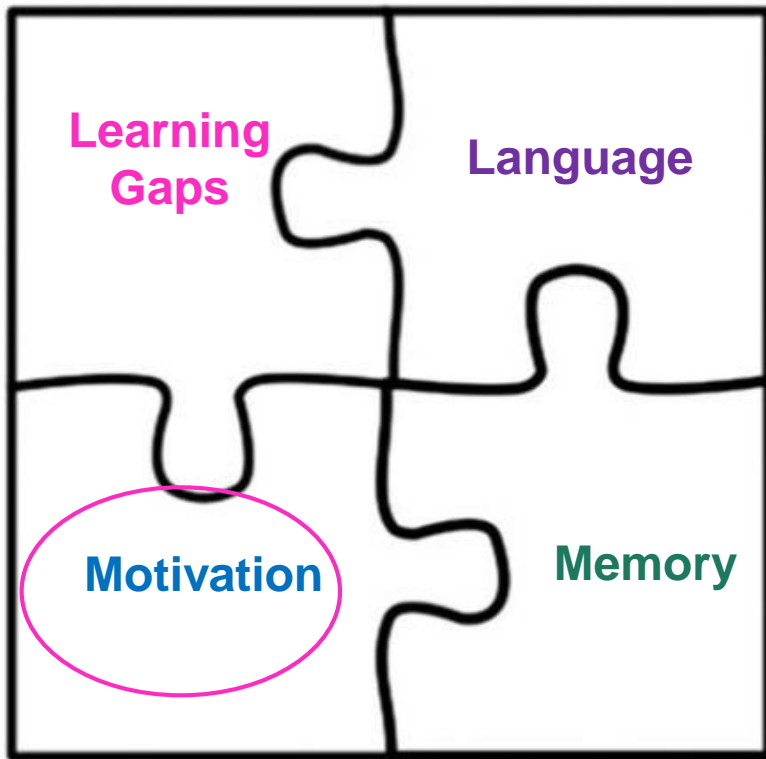
- Use simple language
- Help your child to comprehend word problems through chunking/ model drawing/ role playing/working backwards/ concrete materials/ etc
- Use mathematical language (Renaming/ Regrouping)
- Use of visuals

HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



I can learn anything I want to.
When I'm frustrated, I persevere.
I want to challenge myself.
When I fail, I learn.
Tell me I try hard.
If you succeed, I'm inspired.
My effort and attitude determine everything.

HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



Don't Praise

Intelligence/
Abilities

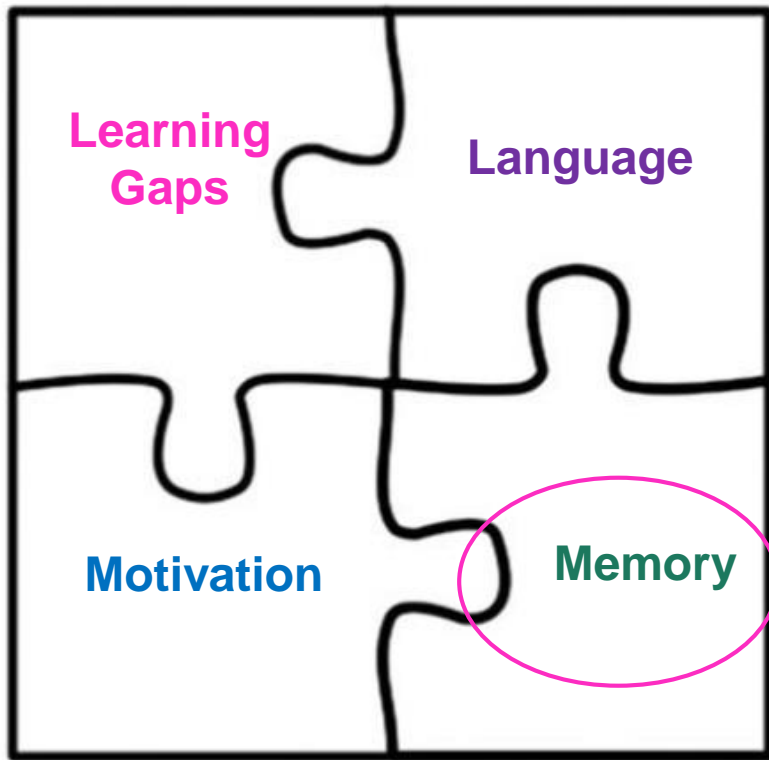
Do Praise

The Process
&
Effort

Praise for:

- Strategy
- Effort
- Process
- Persistence

HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



Need to space out reviews to make the brain reconstruct that memory, strengthening like a muscle



HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



what
do you
think is
going on?





HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS

Making mistakes is part of learning!

Neuroscientists have found that mistakes are helpful for brain growth and connectivity and if we are not struggling, we are not learning.



Contact Details

HOD Mathematics

- leng_sok_wah_celina@schools.gov.sg



THANK YOU