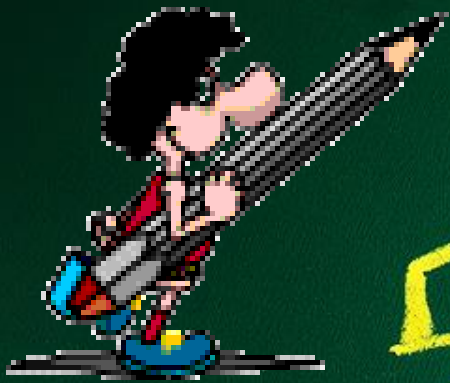


MATHEMATICS

Information for Primary Four Parents



$$5 + 2 = 7$$





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

The Primary Mathematics syllabus aims to enable all students to:

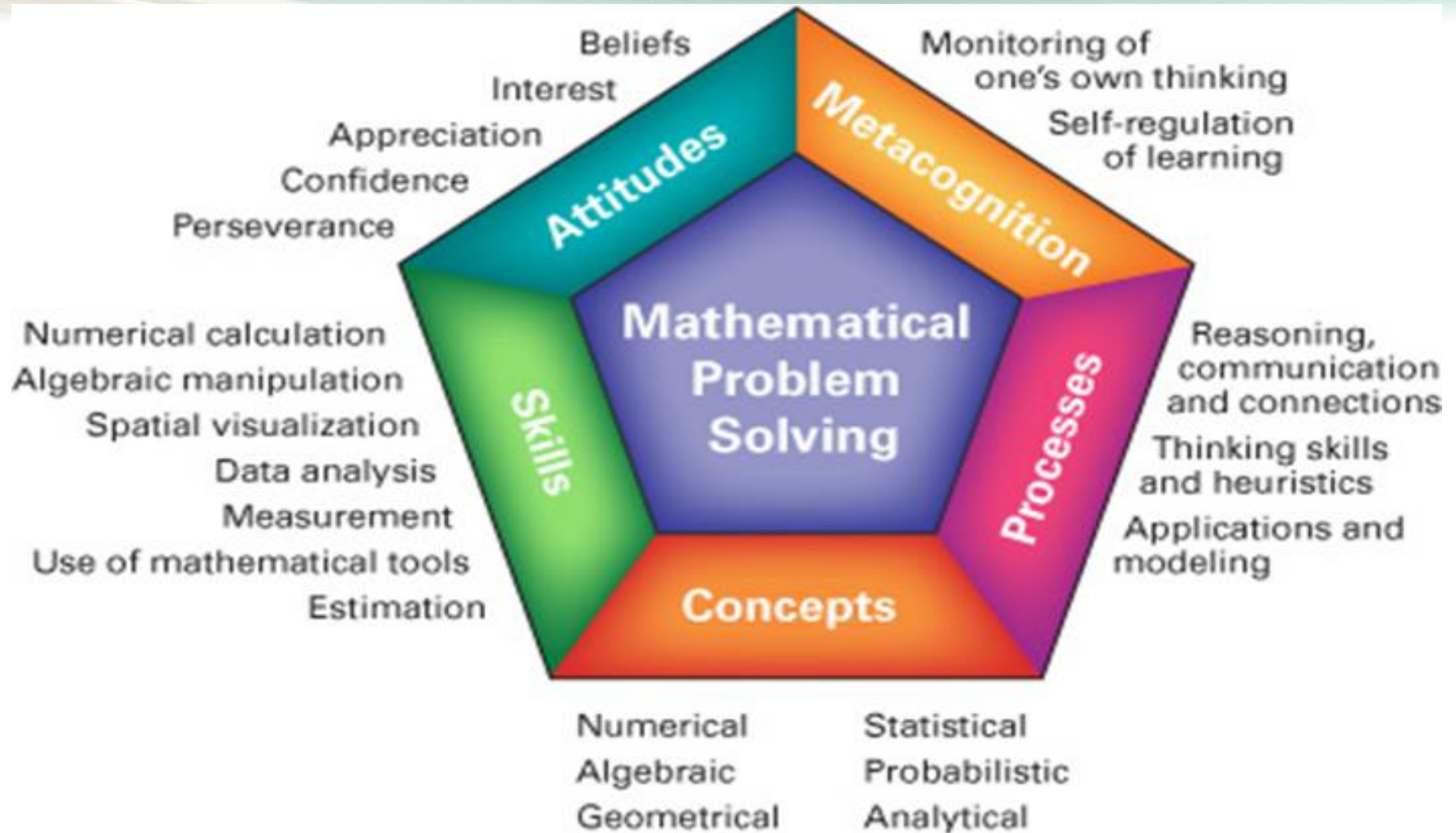
- Acquire mathematical concepts and skills for everyday use and for continuous learning in Mathematics.
- Develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving; and
- Build confidence and foster interest in Mathematics



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		



P4 Syllabus

Number & Algebra (Strand)

- ✓ **Numbers up to 100 000**
- ✓ **Factors and Multiples**
- ✓ **Four Operations**
- ✓ **Mixed Numbers and Improper Fractions**
- ✓ **Fraction of a set of objects**
- ✓ **Addition and subtraction - Fraction**



P4 Syllabus

Number & Algebra (Strand)

- ✓ **Decimals up to 3 decimal places**
- ✓ **Addition and Subtraction –
Decimals**
- ✓ **Multiplication and Division –
Decimal**



P4 Syllabus

Measurement & Geometry (Strand)

- ✓ **Time**
- ✓ **Area and Perimeter**
- ✓ **Angles**
- ✓ **Rectangle and Square**
- ✓ **Line Symmetry**



P4 Syllabus

Statistics (Strand)

- ✓ **Tables and Line Graphs**

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



CPA Approach

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

C-P-A Approach



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



P4 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**

E2K

Math
Olympiad



Checkpoints

Platforms to check learning at Primary 4

Daily
Assignments

Diagnostic
Package

Experiential
Learning
Activities

Math Alive

Reasoning
Cartoon

Open-ended
Tasks

HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



what
do you
think is
going on?





Contact Details

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THANK YOU