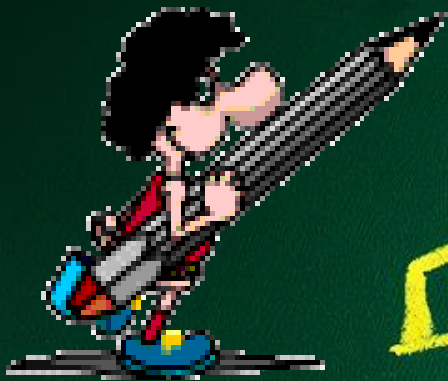


MATHEMATICS

Information for Primary Four Parents



$$5 + 2 = 7$$





Primary Mathematics (Laying a strong foundation)

The Primary Mathematics syllabus aims to enable all students to:

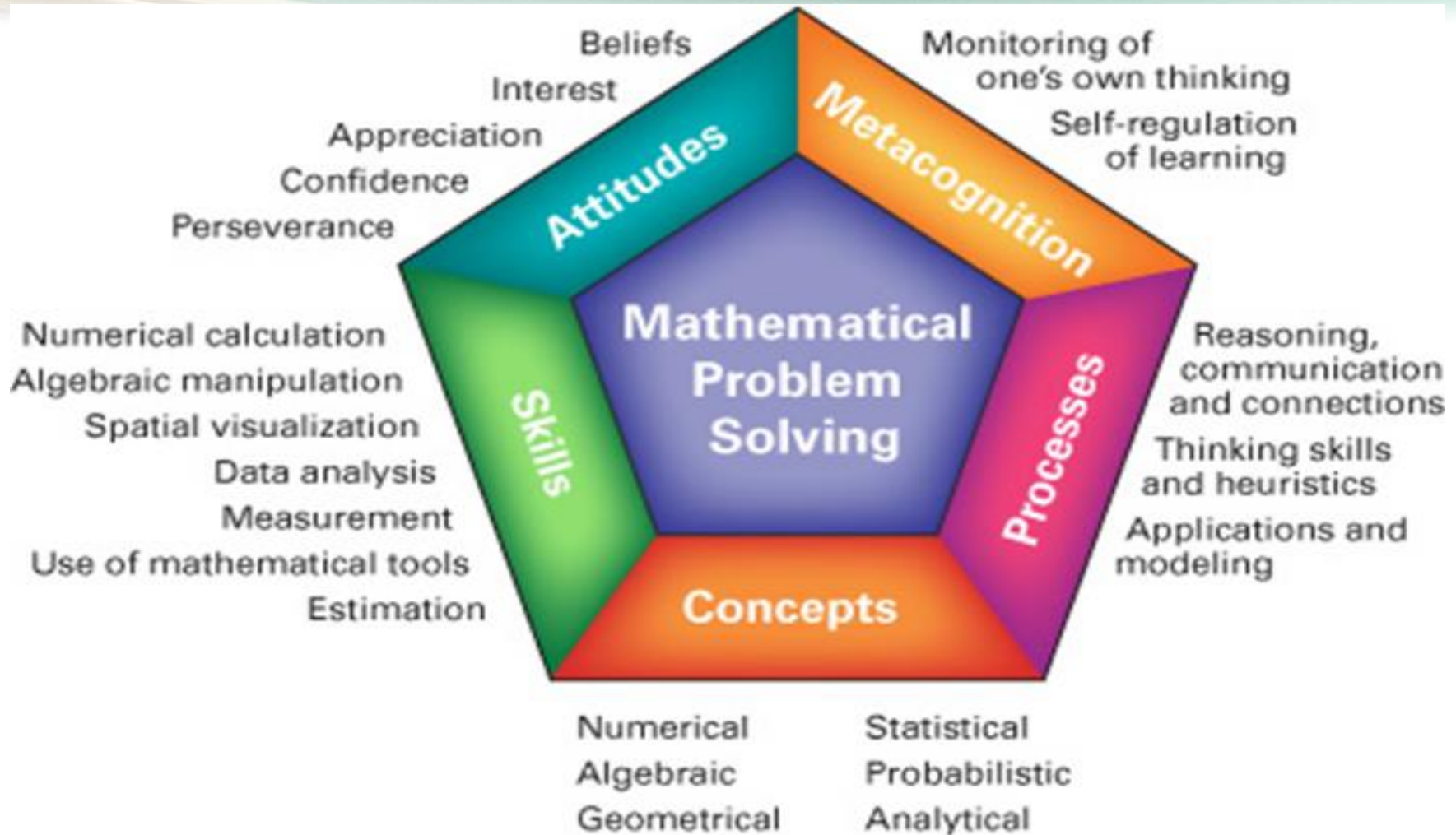
- Acquire mathematical concepts and skills for everyday use and for continuous learning in Mathematics.
- Develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving; and
- Build confidence and foster interest in Mathematics



Our Vision

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

Mathematics Framework



From the Singapore Ministry of Education

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**



Measurement & Geometry (Strand)

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



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

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

Checkpoints



Platforms to check learning at Primary 4

Daily
assignments

Experiential
Learning
activities

Class, group
and individual
tasks

Presentation



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



Fun with Learning

Integrated Trail

Talent Development

Reasoning Cartoon

Math Alive

E2K

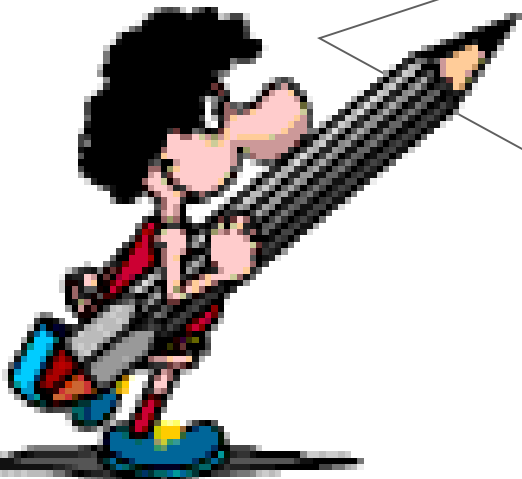
Math Olympiad



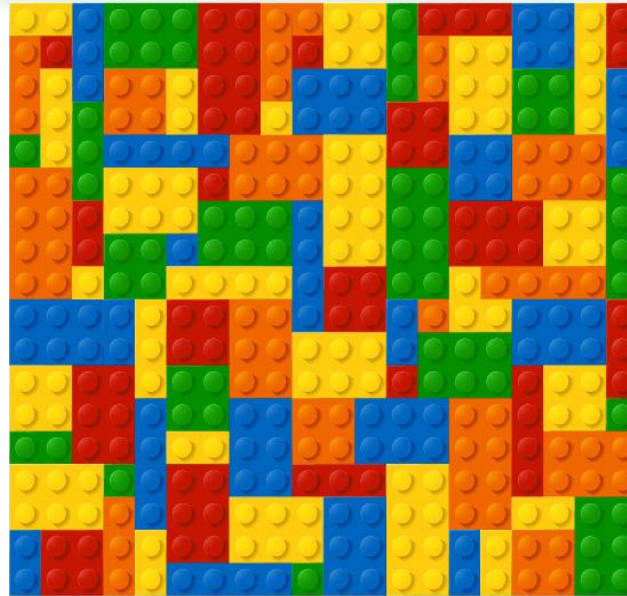
CPA Approach

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

C-P-A Approach



Experiential Learning



HOW YOU CAN HELP YOUR CHILD IN MATHEMATICS



what
do you
think is
going on?



Contact Details



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THANK YOU