



Mathematics

Curriculum Briefing for P1 Parents

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Mathematics Department



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1. Math Learning Outcomes

They are broad aims to:

- Acquire and apply mathematical concepts and skills
- Develop cognitive and metacognitive skills through a mathematical approach to problem solving
- Develop positive attitudes towards mathematics

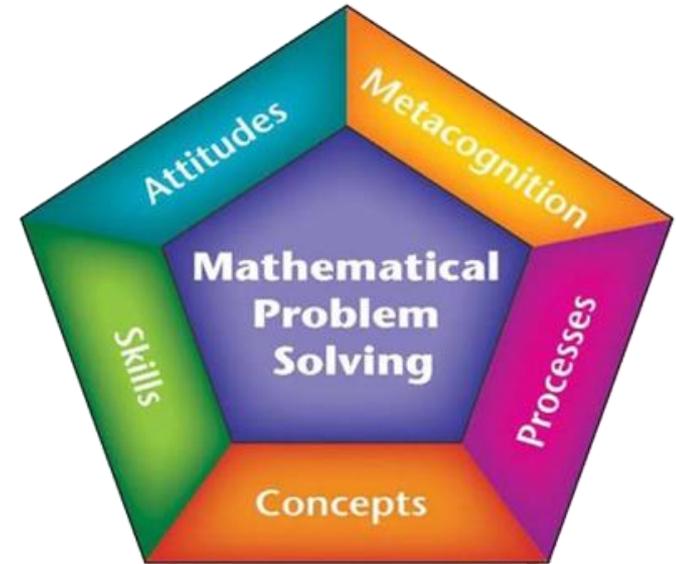




2. Mathematics Framework

Mathematics Framework

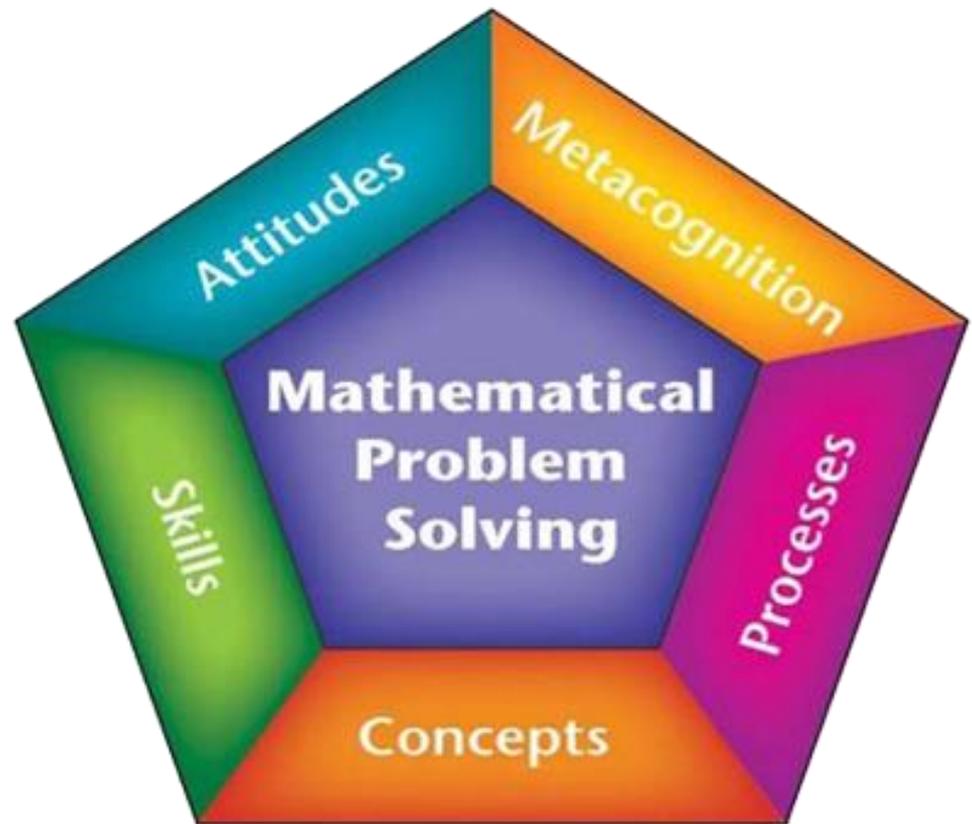
- **Mathematical problem solving** involves the acquisition and application of mathematical concepts and skills in a wide range of situations, including non-routine, open-ended and real-world problems.



Mathematics Framework

The development of mathematical problem solving ability is dependent on **five inter-related components**:

- *Concepts,*
- *Skills,*
- *Processes,*
- *Attitudes and*
- *Metacognition.*





3. Mathematics Programmes @ MPS

Learning Experiences – CPA Approach

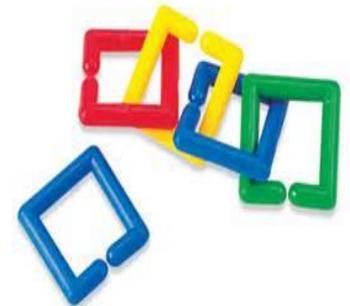
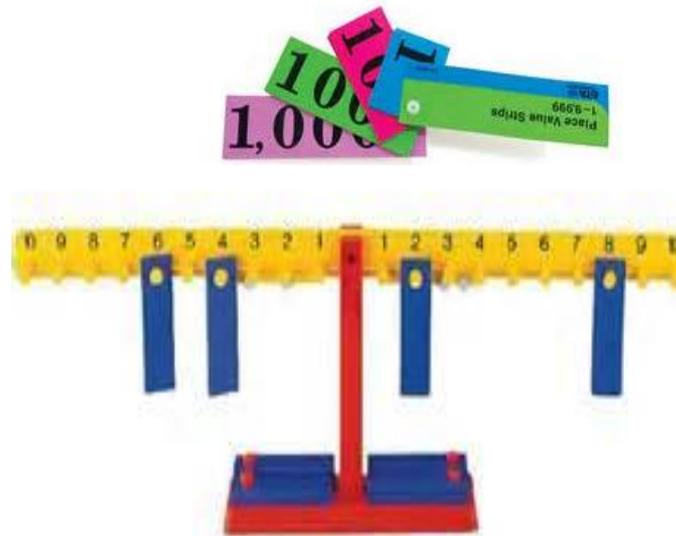
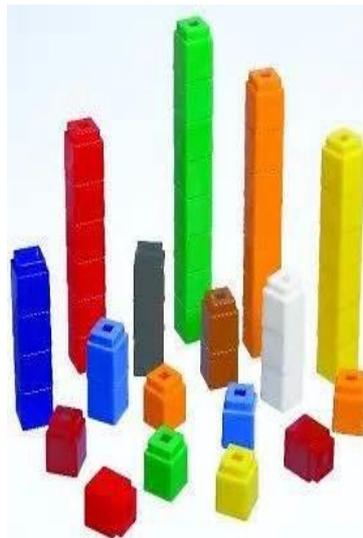
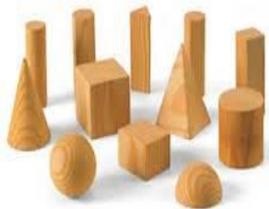
Concrete Operational Stage (7-11 years)

- A major turning point in the child's cognitive development.
- The child can work things out internally in their head.
- Children can conserve number (age 6), mass (age 7), and weight (age 9).



Learning Experiences – CPA Approach

- Math Learning Experiences of our students is based on the CPA approach.
- Aligned to the child's development age.
- Math concepts are first learnt through the use of concrete materials such as manipulatives and everyday materials.

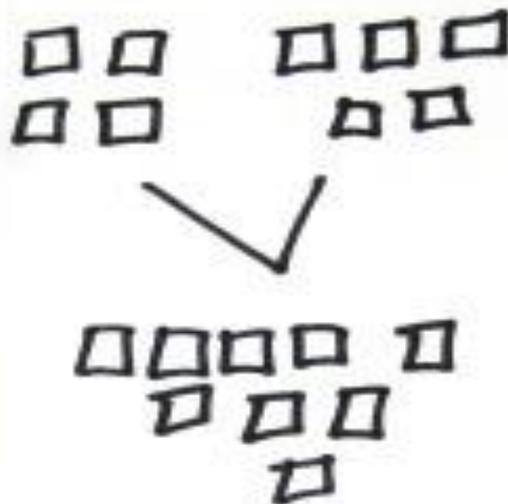


Learning Experiences – CPA Approach

concrete



Representational



Abstract

$$4 + 5 = 9$$

②



Learning Experiences – CPA Approach



Learning Experiences – CPA Approach



Learning Experiences – Outdoor Learning



MTV Learning Space - Eureka



MTV Learning Space - Eureka



MTV Learning Space - Eureka



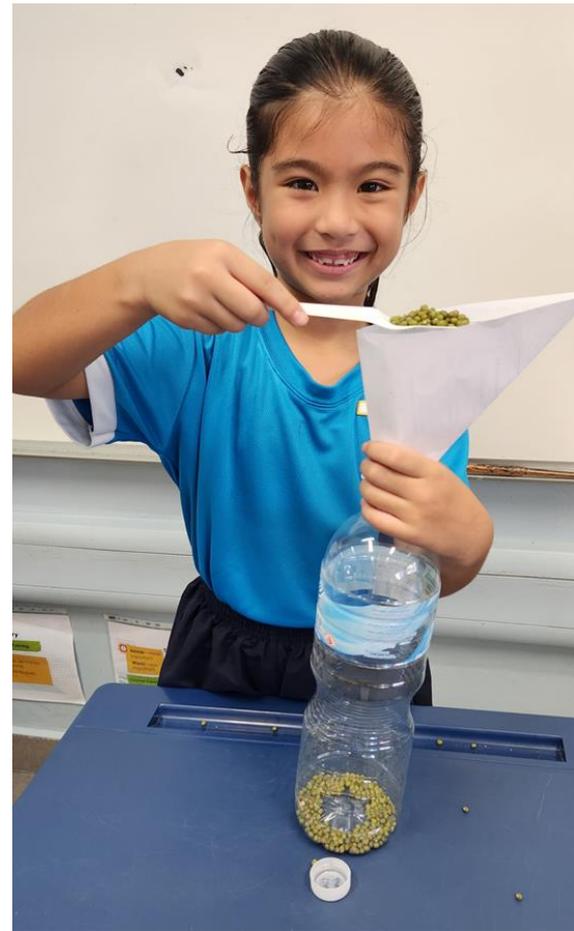
MTV Learning Space - Eureka



STEAM Week – Making Hoop Gliders



STEAM Week – Making Shakers



STEAM Week – Recess Activities



STEAM Week – Recess Activities



STEAM Week – Feedback from Students





4. Home Support in Mathematics

Home Support in Mathematics

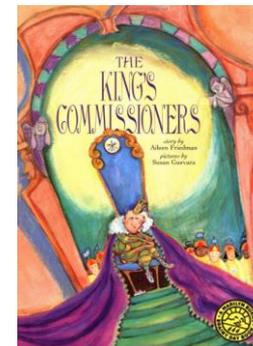
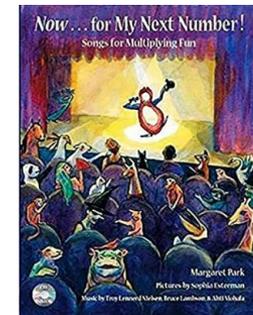
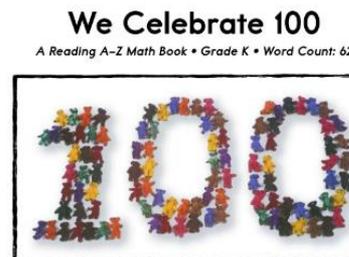
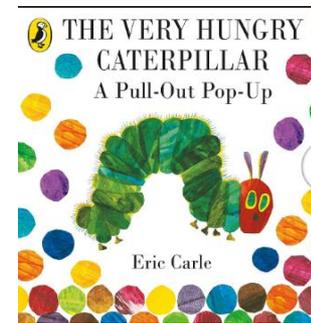
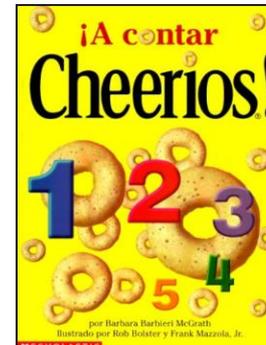
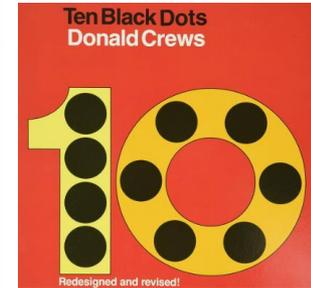
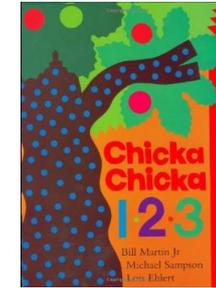
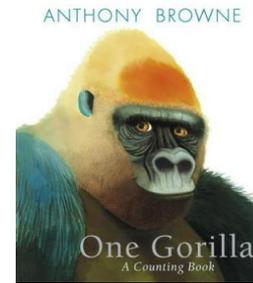
- **Monitor child's revision habits**
- Develop positive attitudes about Mathematics
- Show workings clearly

Home Support in Mathematics

- **Sharpen child's number sense**
- Number bonds
- Multiplication Tables
- Quiz him/her with everyday life questions:
- How much is two 50-cent coins?
- How much change will I get from a \$10 for a cake which I bought for \$4?

Learning Numbers Through Stories

- One Gorilla
- Chicka Chicka 1 2 3
- Ten Black Dots
- The Cheerios Counting Book
- The Very Hungry Caterpillar
- We Celebrate 100
- Even Steven and Odd Todd
- Now for my Next Number!
- The King's Commissioners



Online Learning Platforms

- Allows your child to learn independently and at his/her own pace – self directed learner
- Parental involvement in monitoring progress and set work



Any questions?

**For Math matters, you may contact
via e-mail:
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MARSILING PRIMARY SCHOOL

LEARNERS AND LEADERS OF TOMORROW



*Let's work
together for the
next 6 years
to bring out the
best in your
child!*



Thank You

#teamMPS

