

**P1**  
**MATHEMATICS**  
**CURRICULUM**  
**BRIEFING**



# *Curricula Goal*

## **Competent Problem-Solvers**

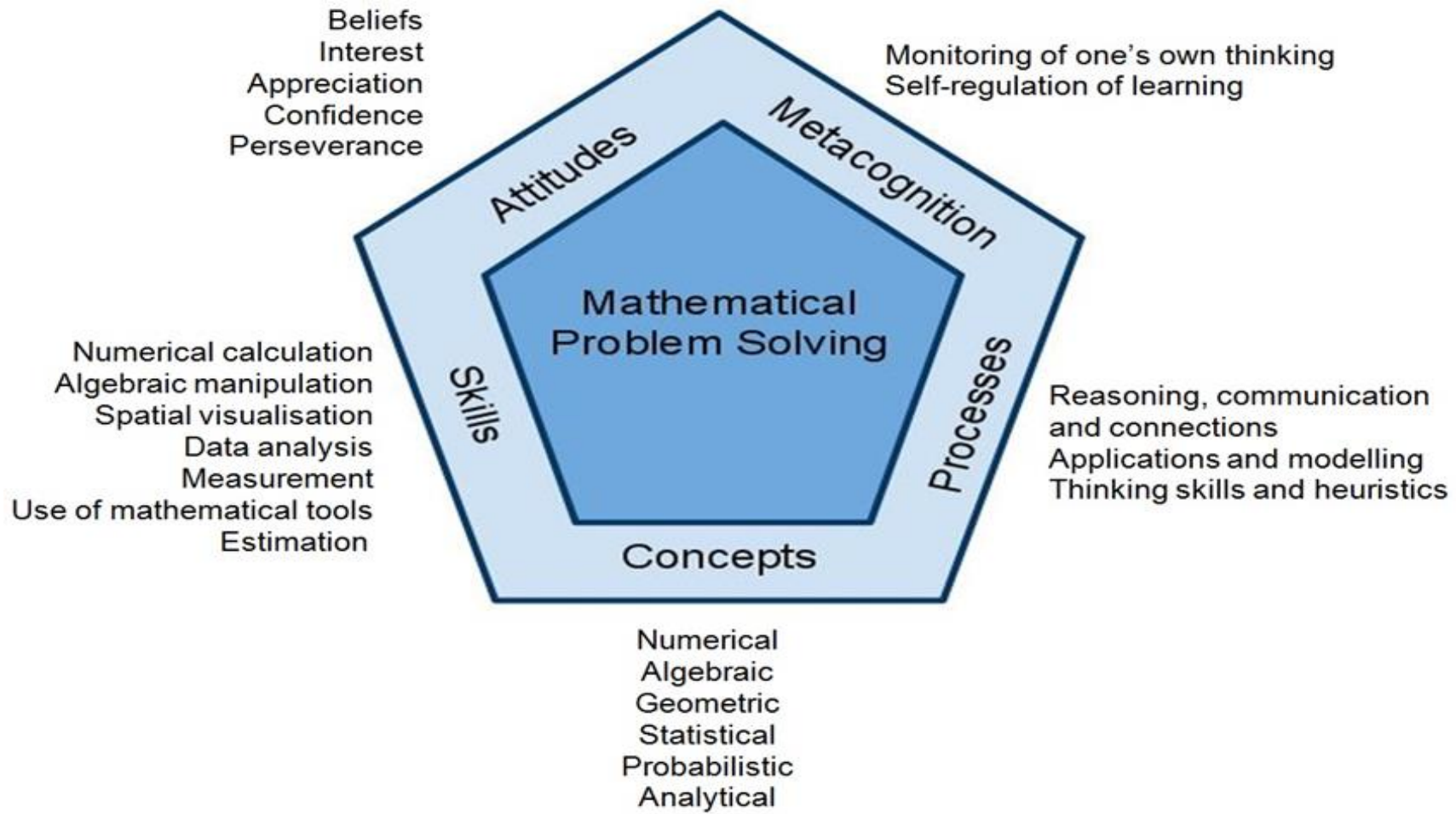
- attained a level of mastery of and interest in Mathematics.
- strong foundation for them to pursue Mathematics at the secondary level and beyond.

# *Curricula Goal*

## **Competent Problem-Solvers**

- The development of mathematical problem solving ability is dependent on five inter-related components, namely, *Concepts, Skills, Processes, Attitudes* and *Metacognition*.

# *The Mathematics Framework*



*Primary 1*

Whole Numbers

Measurement

Geometry

Data Analysis

*Primary 2/3*

Whole Numbers

Measurement

Geometry

Data Analysis

Fractions

*Primary 4*

Whole Numbers

Measurement

Geometry

Data Analysis

Fractions

Decimals

*Primary 5*

Whole Numbers

Measurement

Geometry

Data Analysis

Fractions

Decimals

Percentage

Ratio

*Primary 6*

Whole Numbers

Measurement

Geometry

Data Analysis

Fractions

Decimals

Percentage

Ratio

Speed

# Primary Maths Curriculum

# Focus

P1 - P2

Building on  
Foundation  
in Numeracy

P3 - P4

Leverage on  
Strengths  
and Work on  
Weaknesses

P5 - P6

Mastery in  
Preparation  
for PSLE

# *How we are going to ACHIEVE*

## P1 - P2

- ❖ Building strong basic concepts and skills
- ❖ Starting to solve word problems
- ❖ Fostering opportunities for early successes
- ❖ Starting the habit of putting in efforts to learning

# *How we are going to ACHIEVE*

## P3 - P4

- ❖ Strengthening concepts and skills
- ❖ Developing problem solving strategies
- ❖ Developing analytical and logical reasoning
- ❖ Developing the habit of self-regulating of learning progress



# *How we are going to ACHIEVE*

## P5 - P6

- ❖ Consolidating and extending concepts and skills
- ❖ Mastering problem solving
- ❖ Becoming fluent in analytical and logical reasoning
- ❖ Becoming adapt at self- regulating of learning progress

# Focus

P1 - P2

Building on  
Foundation  
in Numeracy

P3 - P4

Leverage on  
Strengths  
and Work on  
Weaknesses

P5 - P6

Mastery in  
Preparation  
for PSLE

# *STUDENT-CENTRIC LEARNING EXPERIENCES*

- ❖ Students are actively-engaged in sense making through;
  - Learning by Doing
  - Learning by Teaching Others
  - Learning by Interacting
  - Learning by Inquiring

# *Various Formative Assessments*

- ❖ Questioning / Exit Pass / Entrance Ticket/White Board/Worksheets
  - To check the understanding of concepts and skills in class during the daily classroom interactions.
- ❖ Maths Journal Writing
  - To check fluency in the use of Mathematical vocabulary and language and thinking processes.
  - To have a glimpse of our students' feelings about their learning in Mathematics.

# *Various Assessments*

- ❖ Diagnostic Assessments
- ❖ Review Tests
- ❖ Performance Task

# P1 Holistic Assessment Plan

Topics	Term 1	Term 2	Term 3	Term 4
Whole Numbers (65%) <ul style="list-style-type: none"> <li>Numbers to 100</li> <li>Addition</li> <li>Subtraction</li> <li>Numbers Showing Positions</li> <li>Multiplication</li> <li>Division</li> </ul>	Diagnostic Assessment 1 <ul style="list-style-type: none"> <li>Numbers to 10</li> <li>Number Bonds</li> </ul> Diagnostic Assessment 2 <ul style="list-style-type: none"> <li>Addition within 10</li> </ul> Diagnostic Assessment 3 <ul style="list-style-type: none"> <li>Subtraction within 10</li> </ul>	Review Test 1 (10%) <ul style="list-style-type: none"> <li>Number to 20</li> <li>Addition and Subtraction within 20</li> </ul>	Review Test 2 (10%) <ul style="list-style-type: none"> <li>Numbers to 40</li> <li>Addition and Subtraction within 40</li> </ul>	Review Test 4 (25%) <ul style="list-style-type: none"> <li>Multiplication and Division</li> <li>Problem Sums on Whole Numbers</li> </ul>
			Review Test 3 (25%) <ul style="list-style-type: none"> <li>Numbers to 100 (15%)</li> <li>Addition and Subtraction within 100 (5%)</li> </ul>	
Measurement (30%) <ul style="list-style-type: none"> <li>Length</li> <li>Money</li> <li>Time</li> </ul>		Performance Task 2 (10%) <ul style="list-style-type: none"> <li>Length</li> </ul>		Review Test 5 (20%) <ul style="list-style-type: none"> <li>Money</li> <li>Time</li> </ul>
Data Analysis (5%) <ul style="list-style-type: none"> <li>Picture Graphs</li> </ul>			<ul style="list-style-type: none"> <li>Picture Graph (5%)</li> </ul>	
Geometry <ul style="list-style-type: none"> <li>Basic Shapes</li> <li>Patterns</li> </ul>		Performance Task 1 <ul style="list-style-type: none"> <li>Basic Shapes</li> <li>Patterns</li> </ul>		
Weighting (Total 100%)	0	20	35	45
Number of Weighted Assessments	0	2	2	2

On-going formative assessment practices and strategies used in class  
 e.g. making explicit the learning targets and success criteria, providing descriptive feedback, allowing for self- and peer-assessment, and engaging students in goal setting and questioning

Learning Skills and Work Habits: Motivation, Teamwork Communication Skills and Responsibility

# *Diagnostic Assessments & Review Tests*

- ❖ To check our students' mastery of the concepts and skills at the end of a unit of study.
- ❖ Pencil and Paper assessment to be completed in 30 to 45 minutes .

# Diagnostic Assessments & Review Tests

**Cross out** the number that is greater.

37

32

Fill in the blanks.

(a)  $20 + 4 =$  \_\_\_\_\_

(b)  $40 =$  \_\_\_\_\_ tens \_\_\_\_\_ ones



# *Diagnostic Assessments & Review Tests*

Ann has 12 stickers.

Betty has 7 more than her.

How many stickers does Betty have?

Betty has \_\_\_\_\_ stickers.

# *Performance Task*

- Allows students to use the concrete materials provided to solve the questions and students make meaning to their learning through these experiences.

## *Performance Task*

- ❖ involve making quick decisions for problem-solving and it tests some skills that can not be tested through the paper and pencil assessment.

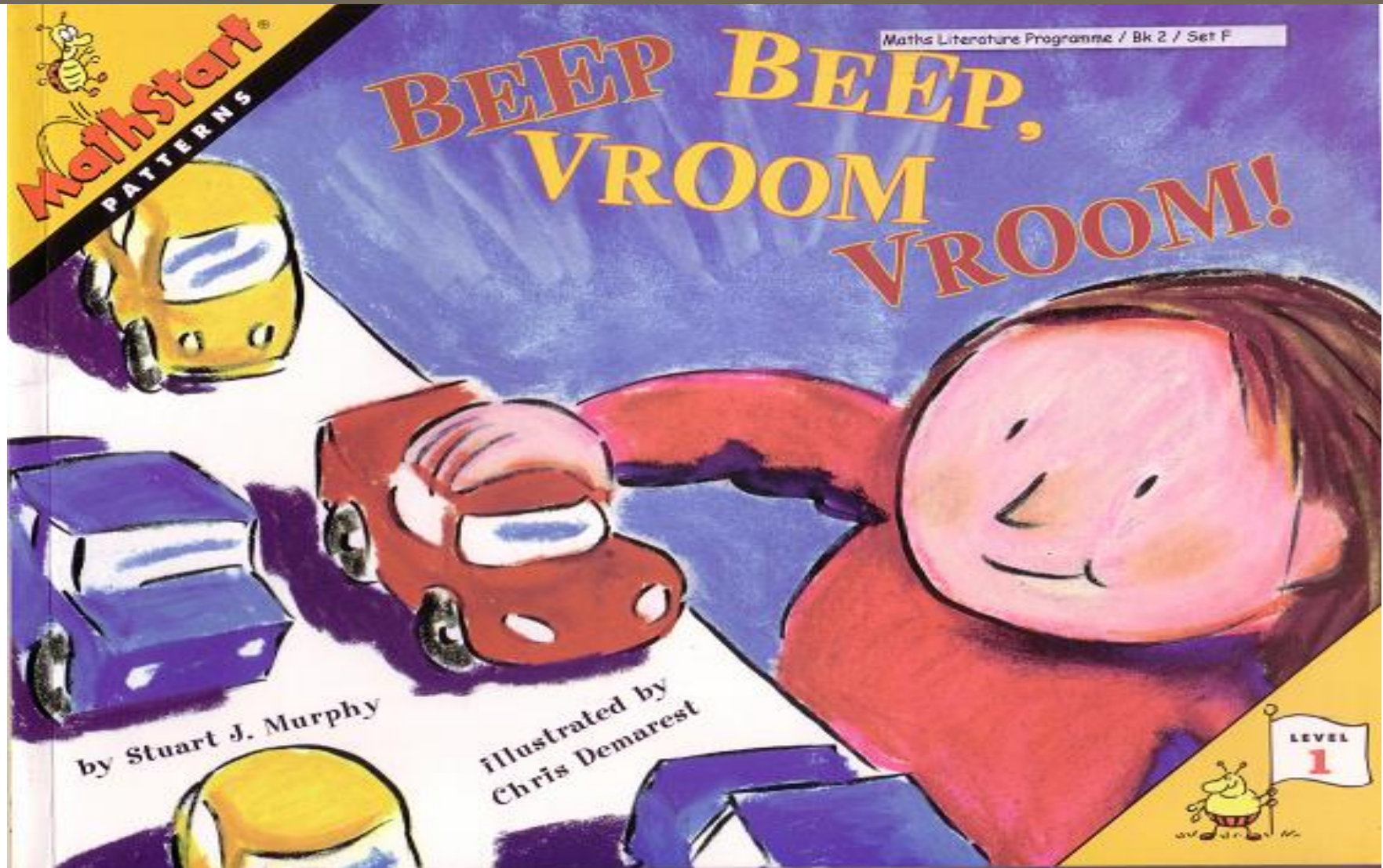
# *Infusing Literature in Mathematics*

- Use stories to arouse interest in learning Maths.
- Use stories to set the context for the learning of the concepts.

# *Infusing Literature in Mathematics*

- Stories allow probing for ways in which the answers are found .
- Stories require inferential and evaluative comprehension in reading instruction.
- All numerical and one-word answers are supported with justification.

# P1 STORYBOOK



# *MATHS JOURNAL WRITING*

- Develop students' metacognitive skills
- Monitor one's own thinking
- Self-regulate one's own learning

# MATHS JOURNAL WRITING

- Gain insights and feedback about the Mathematical problem solving process.
- Provide great assessment technique for individuals and instructors.



*P1 Learning Journey*  
*- TRIP TO THE ZOO*

# P1 MATH TRAIL

## - TRIP TO THE ZOO

Pit-stop 3 : Snakes

👁️ **Look at the exhibits to find your answer.**

### Activity 8

Circle your answer.

Which is longer?

The Reticulated Python or The King Cobra

How do you know?

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Name a snake that is shorter than the King Cobra?

It is \_\_\_\_\_.

How do you know?

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# P1 MATH TRAIL

## - TRIP TO THE ZOO

Pit-stop 4

👁️ **Look at the information on the wall beside the sun bear exhibit.**

**Activity 9 : “Bears of the world”**

How many bears are there? \_\_\_\_\_ bears

**Activity 11 : LEGS!**

How many legs does each animal has?

- A flamingo has \_\_\_\_\_ legs.
- A gibbon has \_\_\_\_\_ legs.
- A giraffe has \_\_\_\_\_ legs.

**Put on your thinking caps.**

There are 3 flamingoes, 2 gibbons and 1 giraffe.

How many legs are there altogether?

# *Checklists & Rubrics*



# FEEDBACK TO PARENTS



Punggol View Primary School  
Primary 1 Mathematics (2013)  
Review Test 3

## Checklist

TOPICS and SIO	Question Number	☆	Need to revise
Counting to tell the number of objects in a given set	1		
Number notation, representations and place values (tens, ones)	4		
	7a		
	7b		
Reading and writing numbers in numerals and in words	2a		
	2b		
	3a		
	3b		
Comparing the number of objects in 2 or more sets	5a		
	5b		
Comparing two numbers with different tens or equal tens	6a		
	6b		
Finding missing numbers in a pattern (pattern in number sequence)	8a		
	8b		
Making greatest or smallest number from given digit	9		
Comparing and Ordering numbers	10a		
	10b		
	11a		
	11b		
	11c		



Punggol View Primary School  
Mathematics  
Performance Task 1  
Ordinal Numbers and Position

20

Name: \_\_\_\_\_ ( )

Parent's  
Signature: \_\_\_\_\_

Class: Primary 1 \_\_\_\_\_

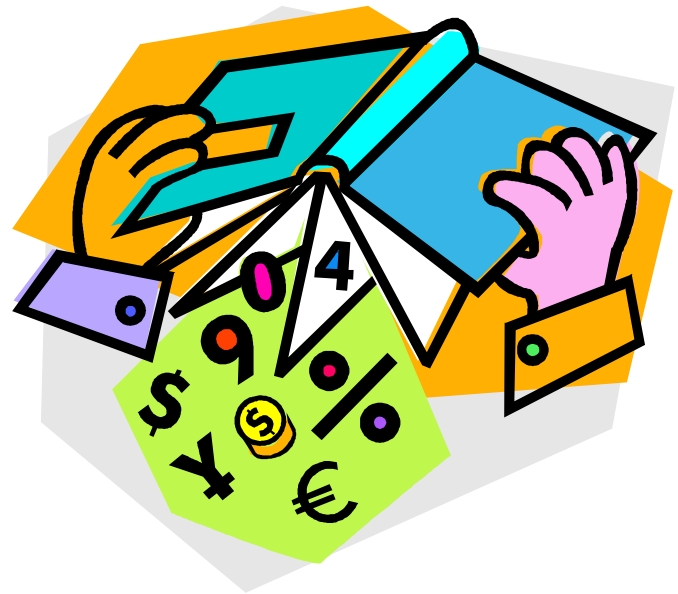
Date: \_\_\_\_\_

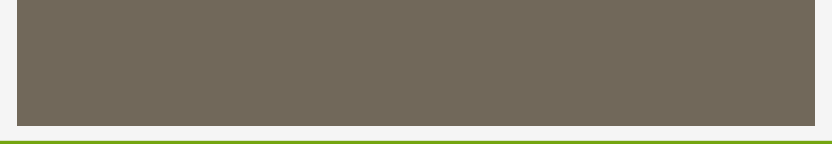
### Instruction to Candidates

1. Follow all the instructions clearly.
2. Do not turn over the page until you are told to do so.
3. Answer all the questions.
4. Do not take any of the items away with you.

Ordinal Numbers and Position			
Specific Instructional Objectives	Questions	Tick (✓)	
		*Yes ☺	No ☹
Use ordinal numbers to tell order and position	1a, 1b, 1c, 1d		
Use position words to name relative position	2a, 2b, 2c, 2d		
	*(6 out of 8)		

*I hear and I forget  
I see and I remember  
I do and I understand*





Thank You