

# **Primary 3 Mathematics Curriculum Briefing 2026**



# Outline

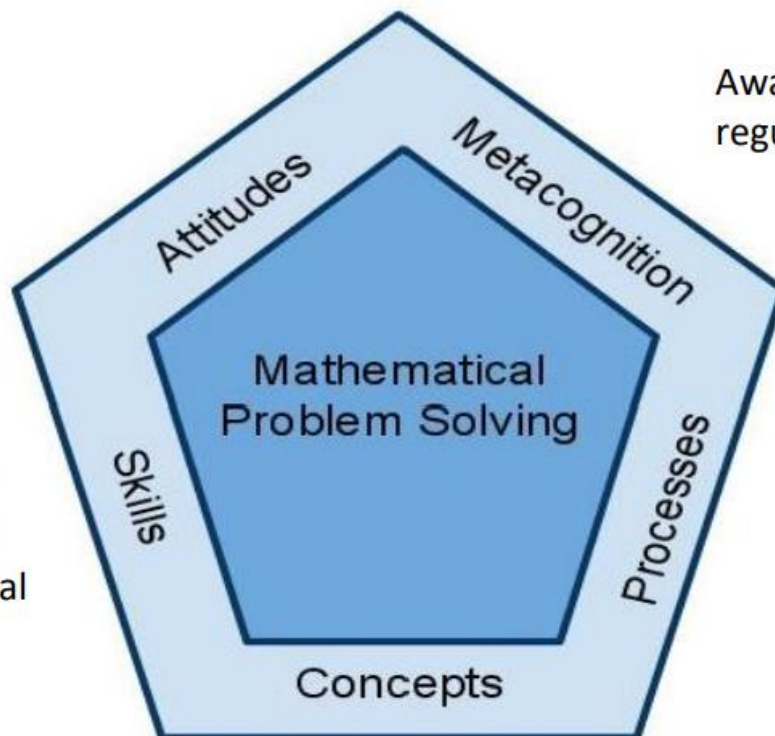
- Mathematics Curriculum Framework
- Mission
- Approach to Teaching & Learning
- Assessment



# MOE Mathematics Curriculum Framework

Belief, appreciation,  
confidence, motivation,  
interest and perseverance

Proficiency in carrying out  
operations and algorithms,  
visualising space, handling  
data and using mathematical  
tools



Awareness, monitoring and  
regulation of thought processes

Competencies in abstracting  
and reasoning, representing  
and communicating,  
applying and modelling

Understanding of the properties and  
relationships, operations and  
algorithms



# Mission



To enable our students to master mathematical concepts and skills for everyday life and to equip them with process skills to solve mathematical problems.



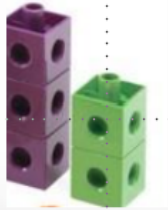
# Content Sequence for P3

Semester 1	Semester 2
<b>Term 1</b> Numbers to 10 000 Addition and Subtraction Money Multiplication Tables of 6, 7, 8 & 9	<b>Term 3</b> Fractions Length Mass Volume
<b>Term 2</b> Multiplication & Division Bar Graphs Angles Perpendicular and Parallel Lines Fractions	<b>Term 4</b> Area and Perimeter Time

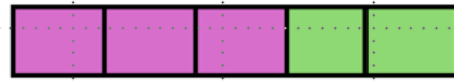


# Approach to Teaching & Learning

CONCRETE

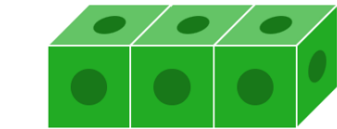


PICTORIAL



ABSTRACT

$$3 + 2 = 5$$



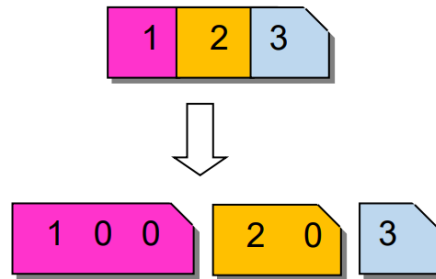
$$3 - 1 = 2$$



# Approach to Teaching & Learning



Multilink Cubes



Number Discs



Fraction Discs

Use of concrete manipulatives to develop conceptual understanding



6 in a pack



6 in a pack

$$2 \times 6 = 12$$

$$6 \times 2 = 12$$



Groups of 3's or  
Groups of 5's

$$5 \times 3 = 15$$

$$3 \times 5 = 15$$



# Experiential Learning

## Creating a Bar Graph

**Survey Question:** What is your favourite colour?

Choices	Person 1	Person 2	Person 3	Person 4	Person 5	Person 6	Person 7	Person 8	Person 9	Person 10	Total
Pink	√		√					√	√		4
Yellow		√					√				2
Green					√	√					2
Orange										√	1
Blue				√							1
										TOTAL	10

### Create a Bar Graph In Polypad

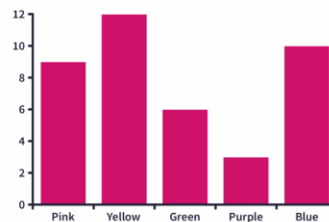
Work in Pairs to create a Bar Graph in Polypad.

After creating the table and bar graph, take a screenshot in iPad, crop away the borders and save as jpeg in photo album.

Watch this video on how to use Polypad to create a Bar Graph.

### Group 2

Colour	People
Pink	9
Yellow	12
Green	6
Purple	3
Blue	10



Click on image to open video in Youtube

### Combine the surveys of group members

- One member of the group will collect the survey results from all other members.
- She will add up the number of each choice and record it in the summary table on the back page of the survey.
- Each member was to survey 10 persons. 4 members would have surveyed 40 persons.

<u>Favourite Colour</u>	Number of people
Pink	12
Yellow	6
Blue	10
Violet	3
Orange	9
	40

Add all 4 members' total for each choice



# Performance Task

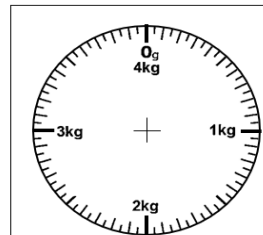
## Measuring (Mass) performance task

A **Large interval** from 0 to 1 kg is equal to 1000 g

There are \_\_\_\_\_ **Medium intervals** from 0 to 1 kg (1000g)

Each **Medium interval** is  $1000 \text{ g} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ g}$

Each **Small interval** (between Medium intervals) is  $100 \text{ g} \div 2 = \underline{\hspace{1cm}} \text{ g}$

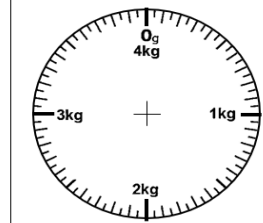


Place the **brass weights** at station 1 gently on the weighing scale. Carefully observe the position of the pointer and decide what is the mass of the brass weights.

Draw a line from the **centre** of the + to the marking where the pointer is pointing.

Count the number of Medium intervals from 0g : \_\_\_\_\_

**At station 1, the mass of the brass weights is**  
\_\_\_\_\_ g

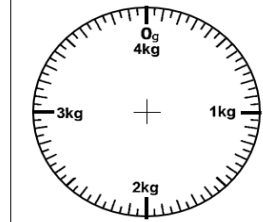


Place the **brass weights** at station 2 gently on the weighing scale. Carefully observe the position of the pointer and decide what is the mass of the brass weights.

Draw a line from the **centre** of the + to the marking where the pointer is pointing.

Count the number of Medium intervals from 0g : \_\_\_\_\_

**At station 2, the mass of the brass weights is**  
\_\_\_\_\_ g



Place the **brass weights** at station 3 gently on the weighing scale. Carefully observe the position of the pointer and decide what is the mass of the brass weights.

Draw a line from the **centre** of the + to the marking where the pointer is pointing.

Count the number of Medium intervals **\*from 1 kg** : \_\_\_\_\_

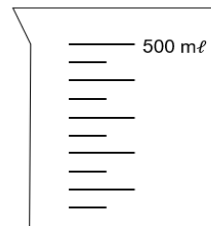
**At station 3, the mass of the brass weights is**  
\_\_\_\_\_ kg \_\_\_\_\_ g

## Measuring (Volume) performance task

Use a **RULER** to **DRAW** a **LINE** to show the water level in each cup.

Note: Check that the water level drawn is **horizontal**.

### Set-up A

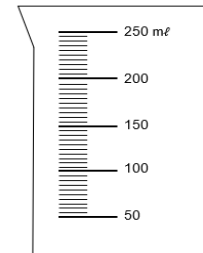


Number of **small intervals** from 0 to 500 mℓ : \_\_\_\_\_

Each **small interval** is \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

The volume of liquid in Set-up A is \_\_\_\_\_

### Set-up B



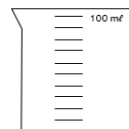
The volume from 50 to 100 mℓ is \_\_\_\_\_ mℓ

Number of **small intervals** from 50 to 100 mℓ : \_\_\_\_\_

Each **small interval** is \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

The volume of water in Set-up B is \_\_\_\_\_

### Set-up C



Number of **small intervals** from 0 to 100 mℓ : \_\_\_\_\_

Each **small interval** is \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

The volume of water in Set-up C is \_\_\_\_\_

\*Please note: Diagrams are not drawn to scale.



# Activity-based lessons

Part 1: Bingo Game

5090	303	128	10 000
5009	2020	932	7483
4783	766	2787	9011
7005	8824	8024	22

Part 2: List the numbers that you have crossed out in part 1 and write them in words.

\_\_\_\_\_:

\_\_\_\_\_:

\_\_\_\_\_:

Part 3: Group the numbers listed in part 2 into two groups.

Even Numbers	Odd Numbers

Playing the BINGO game for 'Whole Numbers' topic



# Differentiated Instructions

## Choice Board (P3 Length, Mass & Volume)

- Question 5 must be completed
- Next, choose another 2 tasks to complete your tic-tac-toe.
- Highlight or circle the boxes you have completed.
- This choice board is due on \_\_\_\_\_.

+

1	2	3
Use the internet to find the height and length of places in Singapore	Use the internet to find the height and length of places around the world	Use the internet to find the height and length of mountain and rivers around the world
4	5	6
Complete the word problems	Complete the summary	Create your own word problems
7	8	9
Drawing of scales of mass and volume	Reading the scales of mass and volume	Complete the Math Journal

Giving students autonomy

## Activity 2

Use the internet to find the height and length of places around the world and complete the table.

Landmark	Height in metres	Height in centimetres
Eiffel Tower in Paris		
Petronas Twin Towers in Malaysia		

Places	Length in kilometres	Length in metres
Great Wall of China		
Amazon River in South America		

What I have learnt:

When converting from metres to centimetres, I \_\_\_\_\_.

When converting from kilometres to metres, I \_\_\_\_\_.

Using the internet to find out data related to real-world context

## Activity 9



Terri

The mass of the apples is 320kg.

Do you think Terri is correct? Please explain.

Thinking aloud, building metacognition competencies



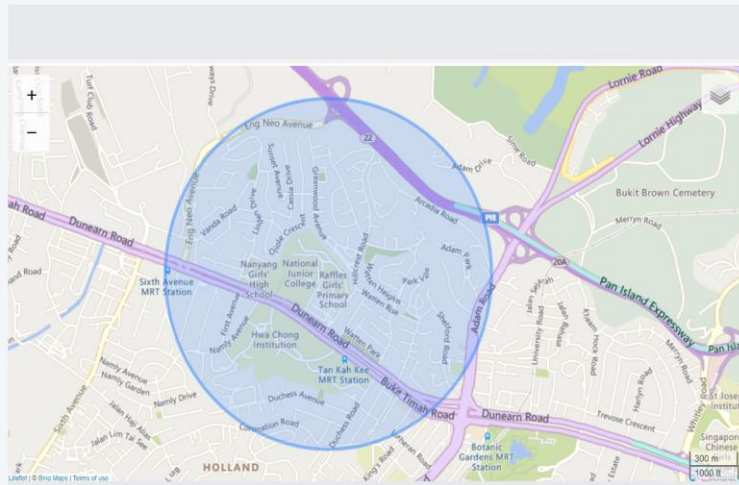
# ICT Enriched Lessons

## Relating to real-world context

### Activity 2: How Far is 1 Kilometre? (Class)

Let's look at the map below.

The distance of the landmarks (within the BLUE circle) is less than 1 km from Raffles Girls Primary School, and the landmarks outside the blue circle is more than 1 km from Raffles Girls Primary School.



### 1 Recap: Measuring Length (Home)

#### What is a metre?



Using videos for recap

Refer to the the instruction below on how to use the map.

1. Type in the name of the landmark if more than one is shown.
2. Tap enter on your keyboard
3. Read the distance shown on the map. That is the distance between Raffles Girls Primary School and the landmark that you have searched for.



Teaching pupils how to use google maps

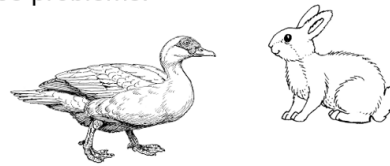
# Heuristic Skills

## Guess and Check 1

Name: \_\_\_\_\_ ( ) P3 ( ) Date: \_\_\_\_\_

Use the guess and check method to solve these problems.

1. There are 20 rabbits and ducks.  
There are 54 legs altogether.  
How many ducks are there?



Rabbits	legs	Ducks	legs	Total animals	Total legs	Check (54)?

Ans: \_\_\_\_\_

Guess and Check strategy

- 1) Mrs Tan sold **450** curry puffs on **Friday**.  
She sold **35 fewer** curry puffs on **Saturday than on Friday**.  
a) How many curry puffs did she sell on Saturday?  
b) How many curry puffs did she sell on both days?

### Step 1: Understanding the word problem

On which days did she sell more curry puffs? On Friday or Saturday? \_\_\_\_\_

### Step 2: Plan

What model do I draw? Part-whole or comparison? \_\_\_\_\_

Draw your model: Complete the model

Friday

Saturday

### Step 3: Do

Look at your model carefully and solve question (a) and (b).

\_\_\_\_\_ ○ \_\_\_\_\_ = \_\_\_\_\_  
\_\_\_\_\_ ○ \_\_\_\_\_ = \_\_\_\_\_

Ans: a) \_\_\_\_\_

b) \_\_\_\_\_



- Remember the 4 steps when you do word problems
- Underline your keywords
- Plan how to draw your model
- Make use of your model and solve the question
- Check your work @

Using Polya's 4 steps method for problem-solving



# Polya's 4 Steps to Problem Solving

## UNDERSTAND

- Read the question carefully
- Take note of key words / information
- What are you asked to solve?

## PLAN

- Think about similar problem you have solved before.
- Any clues to guide you on the strategy to be applied here?  
e.g make a list, draw a model etc

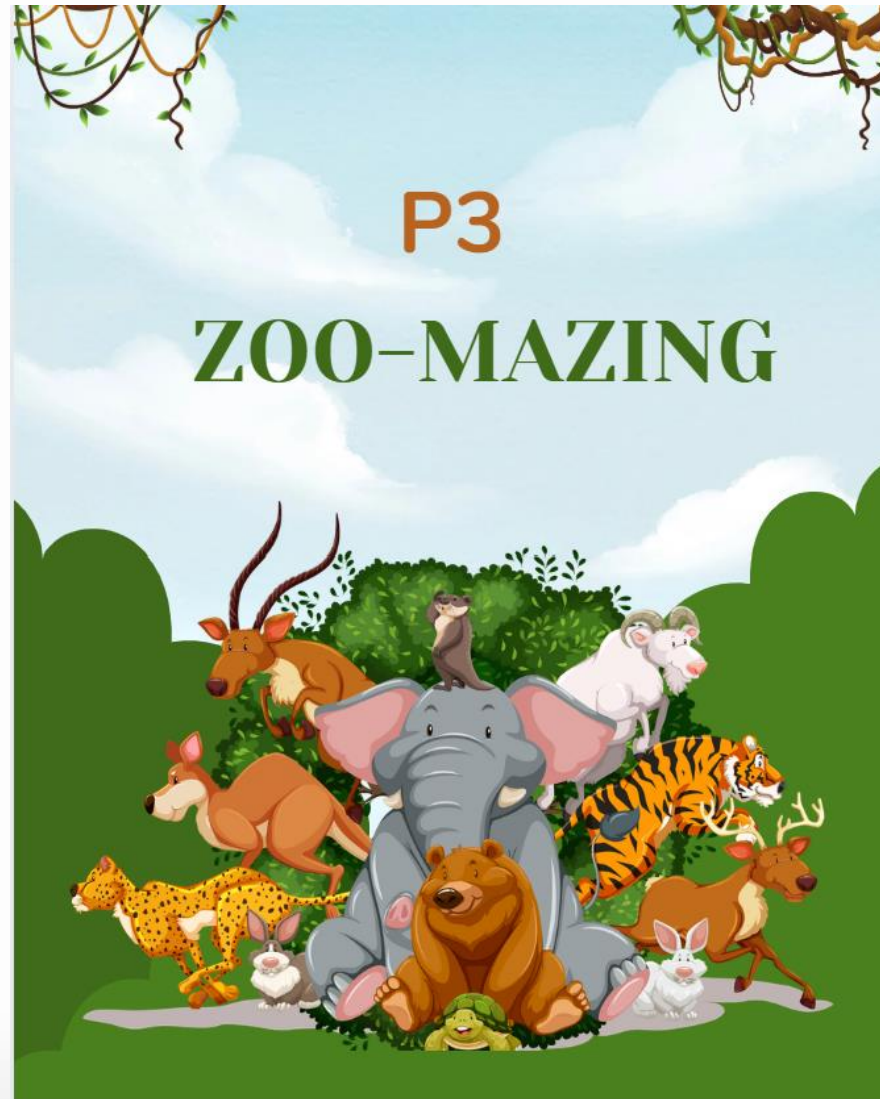
## SOLVE

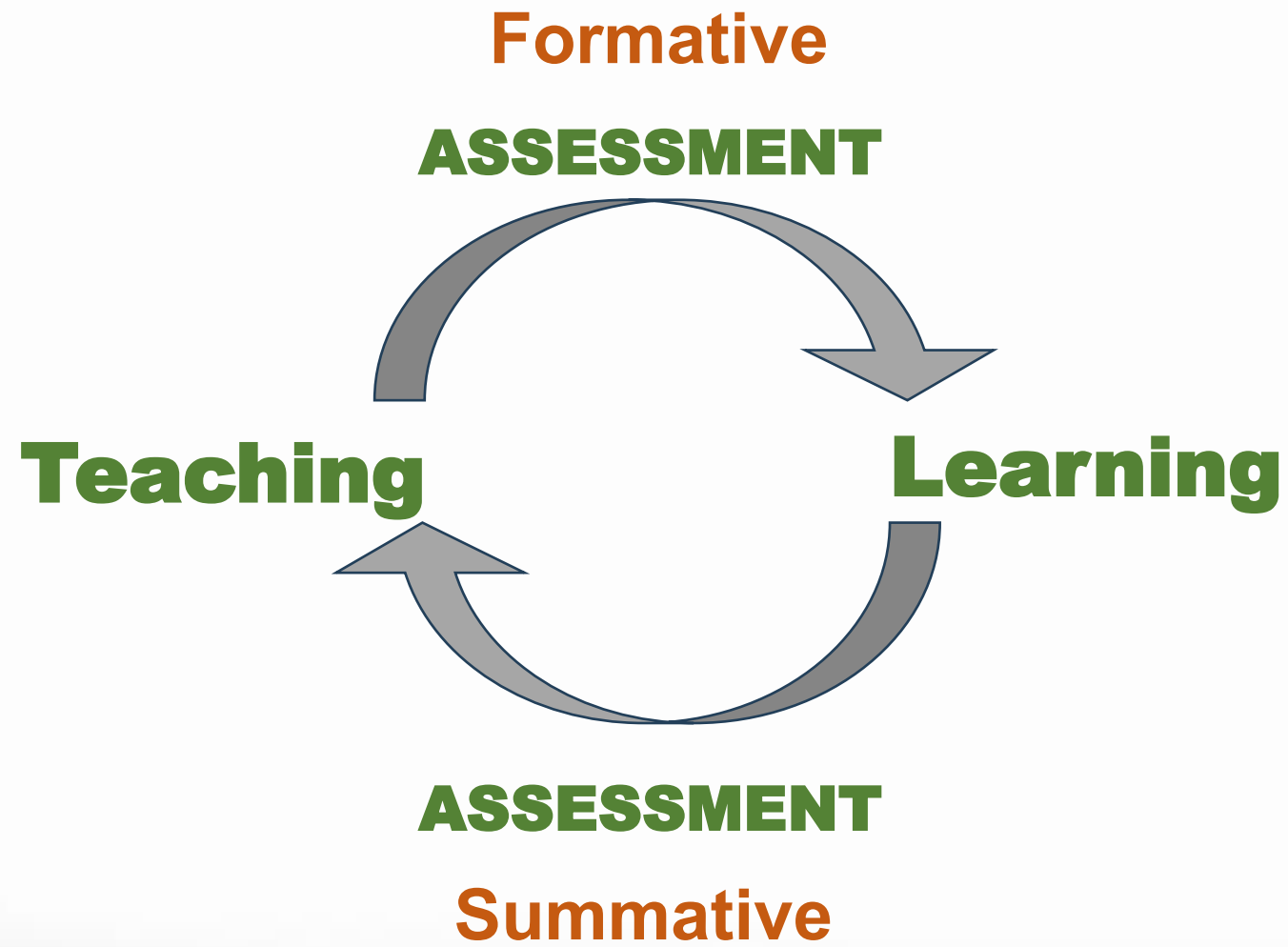
- Follow your plan step by step.
- Write the equations and check each step as you

## CHECK

- Does your answer make sense?
- Does your answer fit the conditions given in the question?
- Do you need to include any units in your answer?







# Formative Assessment

- Daily work
- Performance Tasks
- Topical Review
- Teacher's observation and feedback



# Summative Assessment

Weighted Assessment 1	Weighted Assessment 2	End-Year-Examination	Total
15%	15%	70%	100%



Weighted Assessment 1	Weighted Assessment 2
Term 2 Week 5	Term 3 Week 5
25 marks	25 marks
Topics <ul style="list-style-type: none"> <li>• Numbers to 10 000</li> <li>• Addition &amp; Subtraction</li> <li>• Money</li> <li>• Multiplication Tables of 6,7,8 and 9</li> <li>• Multiplication and Division</li> </ul>	Topics <ul style="list-style-type: none"> <li>• More Word Problems</li> <li>• Bar Graphs</li> <li>• Angles</li> <li>• Perpendicular &amp; Parallel Lines</li> <li>• Fractions</li> </ul>



# P3 End-Year-Examination Format

Duration: 1 h 30 min

Section	Item Type	No. of questions	Marks
Section A	Multiple choice	10	15
Section B	Short Answer Questions	10	15
Section C	Long Answer Questions	5	20
Total		25	50



# Empowering Math Learning at Home

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- Show the relevance of Math in real-life
- Play Math Games
- Provide a supportive environment
- Encourage a Growth Mindset



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Thank you!

