

Primary 3 Mathematics Curriculum Briefing

2026



Outline

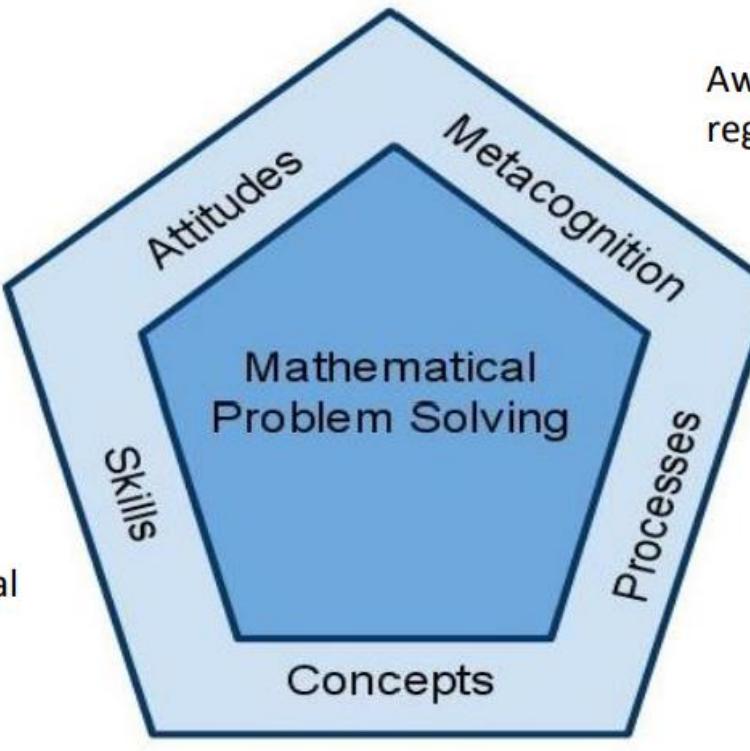
- Mathematics Curriculum Framework
- Mission
- Approach to Teaching & Learning
- Assessment



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



Understanding of the properties and relationships, operations and algorithms

Awareness, monitoring and regulation of thought processes

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



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.

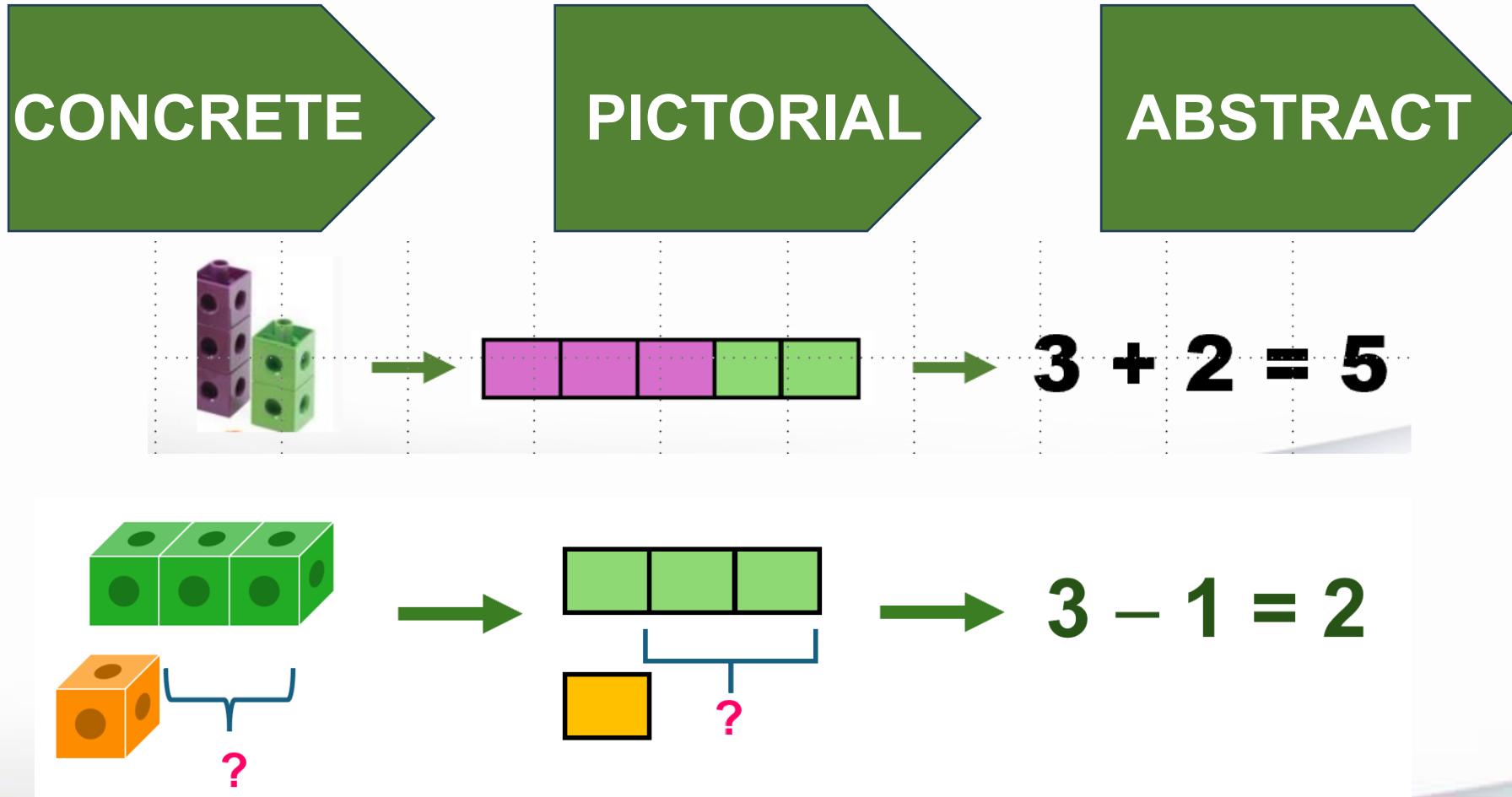


Content Sequence for P3

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



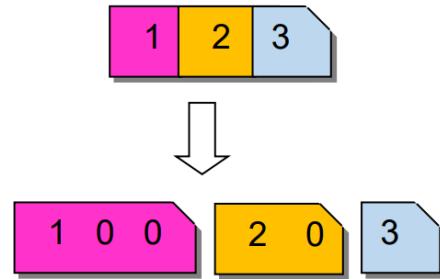
Approach to Teaching & Learning



Approach to Teaching & Learning



Multilink Cubes



Number Discs



Fraction Discs

Use of concrete manipulatives to develop conceptual understanding





$$2 \times 6 = 12$$

$$6 \times 2 = 12$$



Groups of 3's or
Groups of 5's

$$5 \times 3 = 15$$

$$3 \times 5 = 15$$



Experiential Learning

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

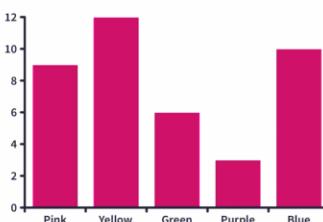
Work in Pairs to create a Bar Graph in Polypad.

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

Creating a Bar Graph

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.

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

Add all 4 members' total for each choice



Performance Task

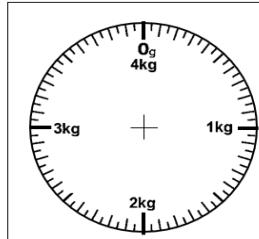
Measuring (Mass) performance task

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 $1000 \text{ g} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ g

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

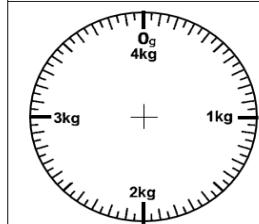


Place the brass weights at station 1 gently on the weighing scale. Carefully observe the position of the pointer and decide what is the mass of the brass weights.

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**

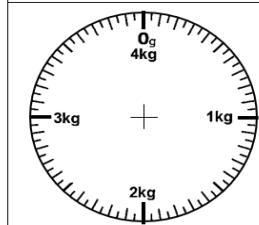


Place the brass weights at station 2 gently on the weighing scale. Carefully observe the position of the pointer and decide what is the mass of the brass weights.

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** : _____

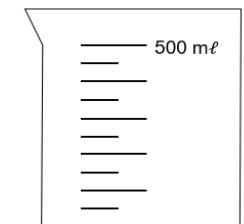
**At station 3, the mass of the brass weights is
____ kg ____ g**

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

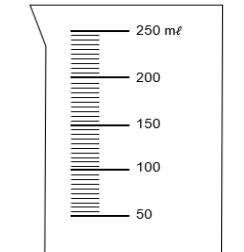


Number of **small intervals** from 0 to 500 mL : _____

Each **small interval** is _____ + _____ = _____

The volume of liquid in Set-up A is _____

Set-up B



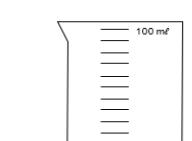
The volume from 50 to 100 mL is _____ mL

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

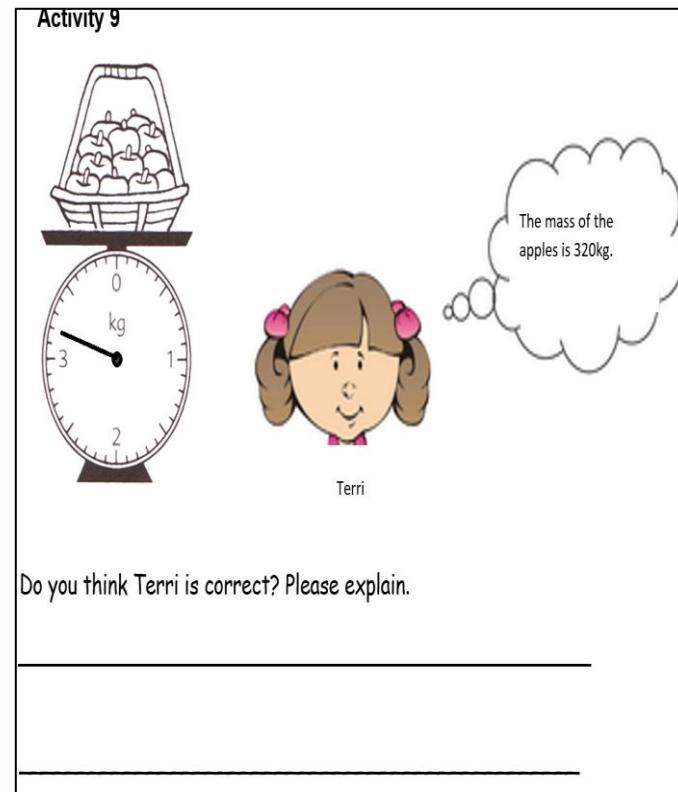
Places	Length in kilometres	Length in metres
Great Wall of China		
Amazon River in South America		

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



Thinking aloud, building metacognition competencies



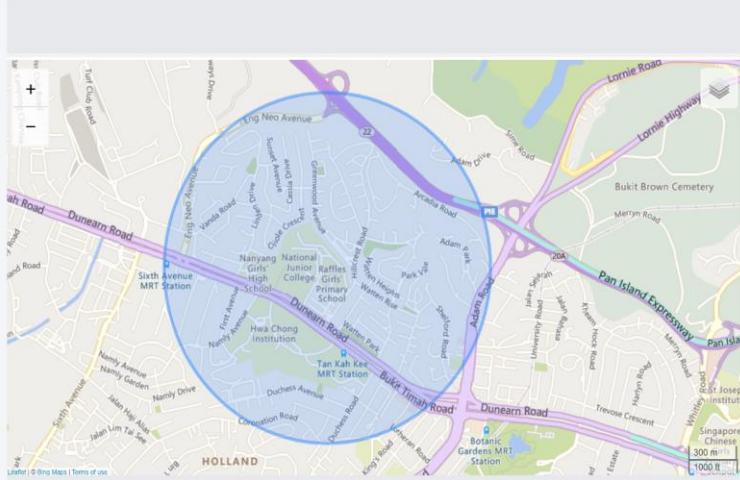
ICT Enriched Lessons

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.

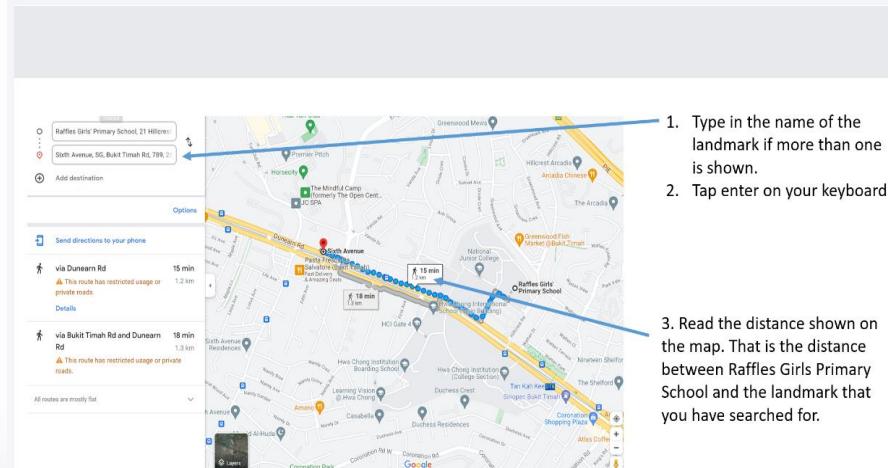


Recap: Measuring Length (Home)

What is a metre?



Refer to 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.

Using videos for recap



Teaching pupils how to use google maps

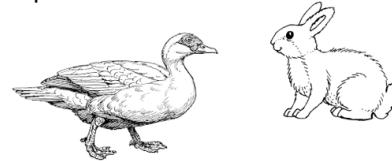
Heuristic Skills

Guess and Check 1

Name: _____ () P3 () Date: _____

Use the guess and check method to solve these problems.

- 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).

$$\text{_____} \bigcirc \text{_____} = \text{_____}$$

$$\text{_____} \bigcirc \text{_____} = \text{_____}$$



- 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 ☺

Ans: a) _____

b) _____

Using Polya's 4 steps method for problem-solving



Polya's 4 Steps to Problem Solving

UNDERSTAND

PLAN

SOLVE

CHECK

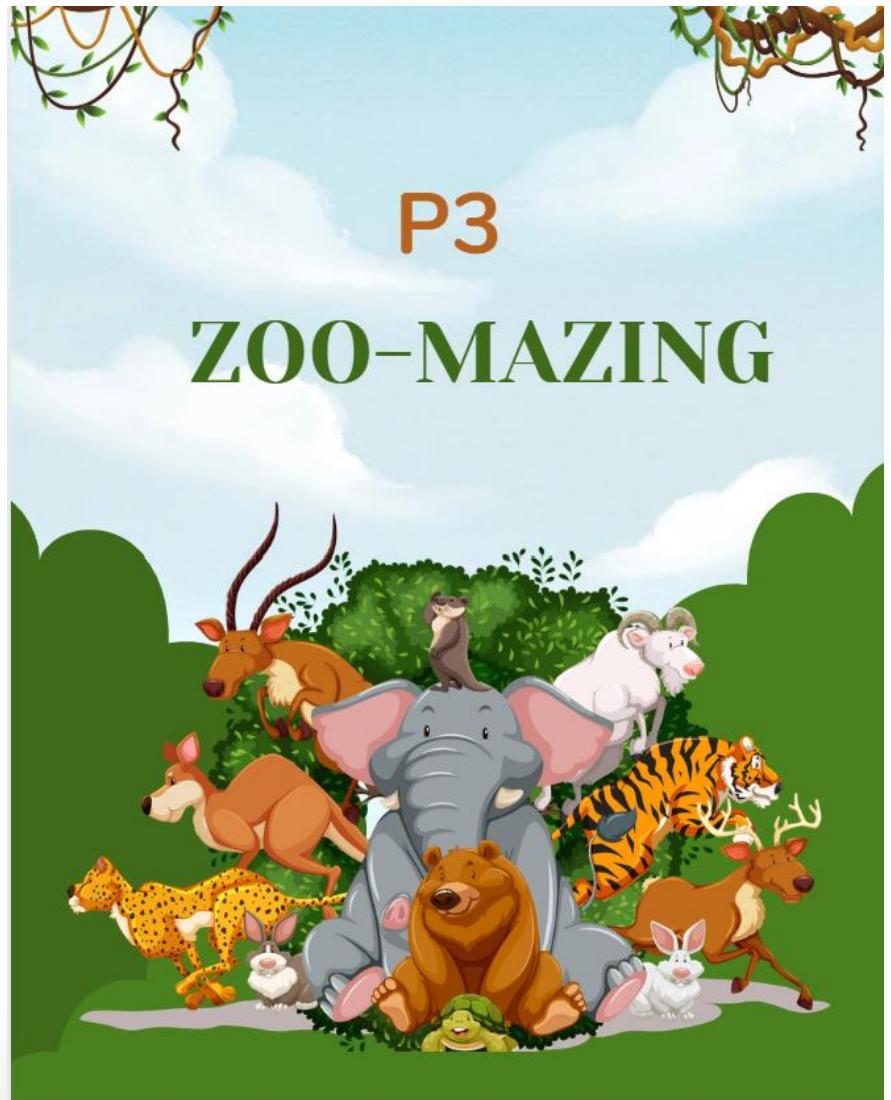
- Read the question carefully
- Take note of key words / information
- What are you asked to solve?

- 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

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

- 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?

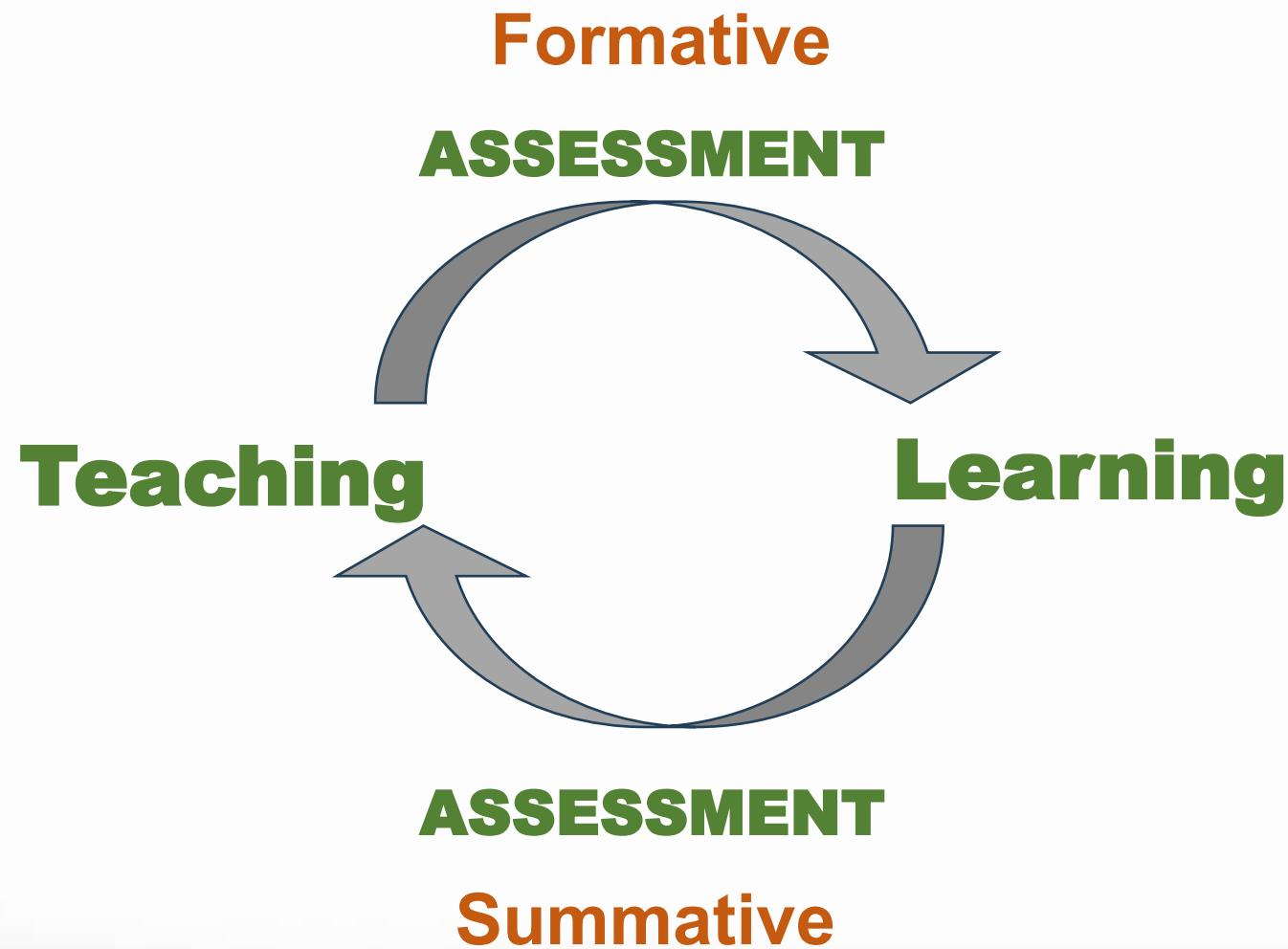




P3

ZOO-MAZING





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
<p>Topics</p> <ul style="list-style-type: none"> • Numbers to 10 000 • Addition & Subtraction • Money • Multiplication Tables of 6,7,8 and 9 • Multiplication and Division 	<p>Topics</p> <ul style="list-style-type: none"> • More Word Problems • Bar Graphs • Angles • Perpendicular & Parallel Lines • Fractions



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

- o

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





Thank you!

