Primary 3 Mathematics Curriculum Briefing

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Outline

- Mission
- Math Curriculum
- Approach to Teaching & Learning
- Assessment



Mission

To develop our pupils with **mathematical concepts** and **skills** for everyday life and to equip them with **process skills to solve mathematical problems.**

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



Content Sequence for P3

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Semester 1	Semester 2
Term 1 Whole 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



Teaching & Learning





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- 11 periods of Math per week
- Use of Concrete Pictorial Abstract approach
- Learning experiences

Teaching & Learning

2 3 * 0 3 0 Multi-link cubes **Fraction Discs** Place-value cards



Use a RULER to DRAW a LINE Note: Check that the water level	to show the water level in each cup. drawn is <u>horizontal.</u>
Set-up A	
500 mℓ	Number of small intervals from 0 to 500 m ℓ :
	Each small interval is + =
	The volume of liquid in Set-up A is
Set-up B	
250 mℓ	The volume from 50 to 100 mℓ is mℓ
200	Number of small intervals from 50 to 100 ml :
150	Each small interval is * =
50	The volume of water in Set-up B is
Set-up C	Number of small intervals from 0 to 100 mℓ :
100 m²	Each small interval is+ =
	The volume of water in Set-up C is

*Please note: Diagrams are not drawn to scale.

Measuring (Volume) performance task





Learning how to measure mass using weighing skills and volume using beakers

Heuristic Packages

Guess and Check 1							
Nam	Name:() P3 () Date:						
Use	Use the guess and check method to solve these problems.						
1.	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).	
=	
\bigcirc	
=	
- Remember the 4	
word problems D)	
Original year Argenting	
your model - Make use of your	
model and solve the question	
- Check your work Ø	
00	1
Using Polya's 4 steps method for problem-solv	ina



Differentiated Instructions

CIIO	ice board (F5 Len	gui, mass a volum	ie)				
	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						
•] •	4	0	0				
	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				

baies Beard (B2 Length Mass & Volume)

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



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.







landmark if more than one 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



Teaching pupils how to use google maps

Survey Question: What is your favourite colour?

Chairsa	Person	Person	Tata								
Choices	1	2	3	4	5	6	7	8	9	10	Tota
Pink	4		1					V	\checkmark		4
Yellow		1					1				2
Green					1	V					2
Orange										V	1
Blue				1							1
										TOTAL	10

Combine the surveys of group members One member of the group **Favourite Colour** Number of people will collect the survey Add all 4 results from all other members' 12 total for members. Pink each choice She will add up the 6 Yellow number of each choice and record it in the 10 Blue summary table on the back page of the survey. Violet 3 · Each member was to 9 Orange survey 10 persons. 4 40 members would have

P3 – Bar Graphs

Create a Bar Graph

Work in Pairs to create a Bar Graph in <u>Polypad</u>.

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



Click on image to open video in Youtube

Assessment Matters



Formative Assessments



Teacher's assessment after topical review

RAFFLES GIRLS' PRIMARY SCHOOL PRIMARY THREE MATHEMATICS						
CHAPTER 1 FEEDBACK						
Name:		()			
Class:						
Numbers To 10 000	Novice	Developing	Proficient			
Counting in hundreds/thousands to ten thousand						
 Number notation, representations and place values (thousands, hundreds, tens, ones) 						
Reading and writing numbers in numerals and words						
Comparing and ordering numbers						
Patterns in number sequences						
Comments: (if any)						

Summative Assessments

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

Summative Assessments

Primary 3	Weighted Assessment 1	Weighted Assessment 2
Date	Term 2 Week 5	Term 3 Week 5
Marks (Duration)	20 marks (50 min)	20 marks (50 min)
Topics	Numbers to 10 000 Addition & Subtraction Multiplication & Division	Money Bar Graphs Angles, Perpendicular & Parallel Lines Fractions

End-Year-Examination Format

Duration: 1 h 30 min

Section	ltem Type	No. of questions	Marks
Section A	Multiple choice	10	15
Section B	Short-answer	10	15
Section C	Structured / Long-answer	5	20
Total		25	50

How can you help your child?

- Make math Fun
- Show the relevance of Math in real-life
- Be encouraging and adopt a positive mindset,
- celebrate every success!

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Thank you!