P1 MATHEMATICS CURRICULUM BRIEFING



Punggol View Primary School

Partnership between Parents and School

Currícula 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.

Currícula 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







How we are going to ACHIEVE <u>P1 - P2</u>

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

<u>P3 - P4</u>

- 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 <u>P5 - P6</u>

Consolidating and extending concepts and skills

Mastering problem solving

Becoming fluent in analytical and logical reasoning

Becoming adapt at self- regulating of learning progress



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.

Varíous Assessments

Diagnostic Assessments

Review Tests

Performance Task

P1 Holístíc Assessment Plan

Topics	Term 1	Term 2	Term 3	Term 4			
Whole Numbers (65%)	Diagnostic Assessment 1	Review Test 1 (10%)	Review Test 2 (10%)	Review Test 4 (25%)			
Numbers to 100	Numbers to 10	Number to 20	Numbers to 40	Multiplication			
Addition	Number Bonds	Addition and	Addition and	and Division			
Subtraction		Subtraction within	Subtraction within 40	Problem Sums on			
Numbers Showing	Diagnostic Assessment 2	20		Whole Numbers			
Positions	Addition within 10		Review Test 3 (25%)				
Multiplication			Numbers to 100				
Division	Diagnostic Assessment 3		(15%)				
	Subtraction within		Addition and				
	10		Subtraction within				
			100 (5%)				
Measurement (30%)		Performance Task 2		Review Test 5 (20%)			
Length		(10%)		• Money			
Money		Length		• Time			
• Time							
Data Analysis (5%)							
Picture Graphs							
			Picture Graph (5%)				
Geometry		Performance Task 1					
Basic Shapes		Basic Shapes					
Patterns		Patterns					
Waishting (Tatal 100%)	0	00	25	45			
Weighling (Total 100%)	0	20	35	45			
	0	2	2	2			
				I			
Un-going tormative assessment practices and strategies used in class							
e.g. making explicit the learning targets and success criteria, providing descriptive teedback, allowing for self- and peer-assessment,							
and engaging students in goal setting and questioning							

Díagnostíc 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.

Díagnostíc Assessments & Review Tests



Fill in the blanks. (a) 20 + 4 = _____ (b) 40 = _____ tens _____ ones

Díagnostíc 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.

PI 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 <u>Circle your answer.</u> Which is longer?

The Reticulated Python or The King Cobra

How do you know?

Name a snake that is shorter than the King Cobra? It is ______. How do you know?

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?



FEEDBACK TO PARENTS



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

Checklist

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





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

)	Parent's
-	Signature:

Class: Primary 1 _____

Date: _____

Instruction to Candidates

1. Follow all the instructions clearly.

Name: _____ (

- 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						
Encoific Instructional Objectives	Questions	Tick (✓)				
Specific Instructional Objectives		*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



