

Primary 5

Mathematics

Curriculum Briefing



Outline

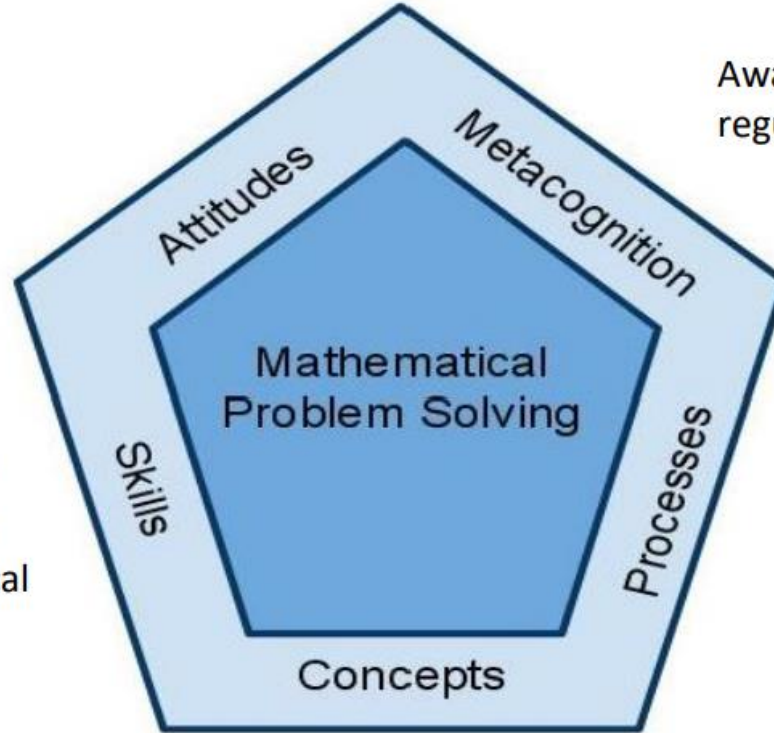
- Mathematics Curriculum Framework
- Mission
- Approach to Teaching & Learning
- Assessment



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 P5

Semester 1	Semester 2
Numbers to 10 million	Rate
Four Operations of Whole numbers	Percentage
Four Operations of Fractions	Angles
Area of Triangle	Properties of Triangles
Volume	Properties of Parallelogram, Rhombus & Trapezium
Decimals	



Approach to Teaching & Learning

CONCRETE

PICTORIAL

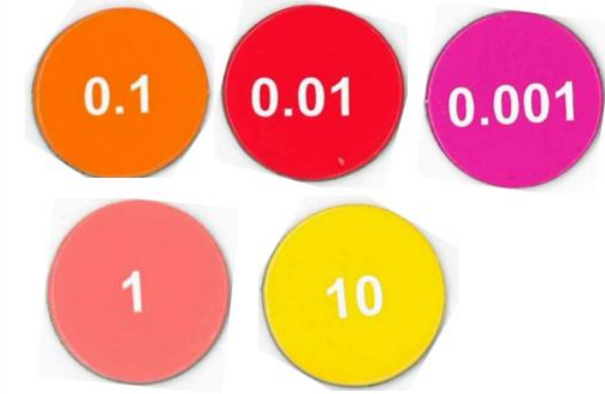
ABSTRACT



Approach to Teaching & Learning



Fraction Discs



Number Discs



Wooden cubes

Use of concrete manipulatives to develop conceptual understanding



P5 – Volume

Concrete ➔ **Pictorial** ➔ **Abstract**



2	1	1
2	1	1
1		



Heuristics Skills

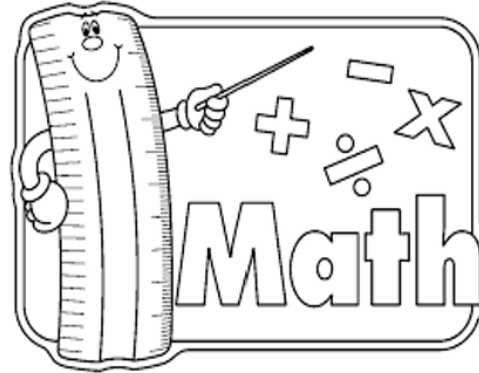


Whole Number Problem Sums

Key Concepts	Completed
1. Equal stage at the beginning	
2. Constant difference	
3. Equal stage at the end	
4. More than/Less than	



RAFFLES GIRLS' PRIMARY SCHOOL
MATHEMATICS
PRIMARY 5



Fraction Problem Sums (With Model)

S/N	Key Concepts
Notes	Interpreting Fractions in Word Problems
1.	Remainder Concept
2.	One Item Constant
3.	Comparing 'left' with the 'Whole'



TRIANGLES BOOKLET

S/N	Key Concept	
1	Useful Notes: <ul style="list-style-type: none">- Base and height of a triangle- Area of triangle and its related rectangle- Formula for finding area of a triangle	
2	Area of Composite Figures: Split and Add Strategy	
3	Area of Composite Figures : Take-away Strategy	
4	Overlapping Areas	



Activity Based Lesson

Geometry Supplementary Practice

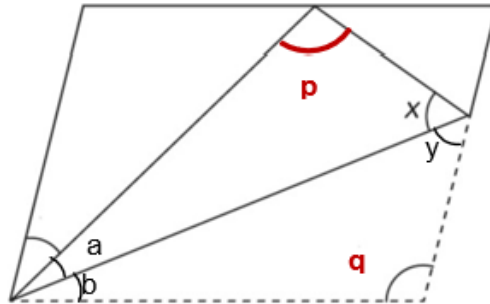
Name: _____ Date: _____

Class: P5 _____

Discover

Fold your parallelogram as shown below


A piece of paper in the shape of a parallelogram is folded as shown.
Find $\angle x$.




Measure $\angle x$ and $\angle y$. What do you notice about the two angles?





ICT Enriched Lesson



 Google Clas

Visualizing Triangles

 Determine whether three segments can form a triangle. Analyze animated visual answers.

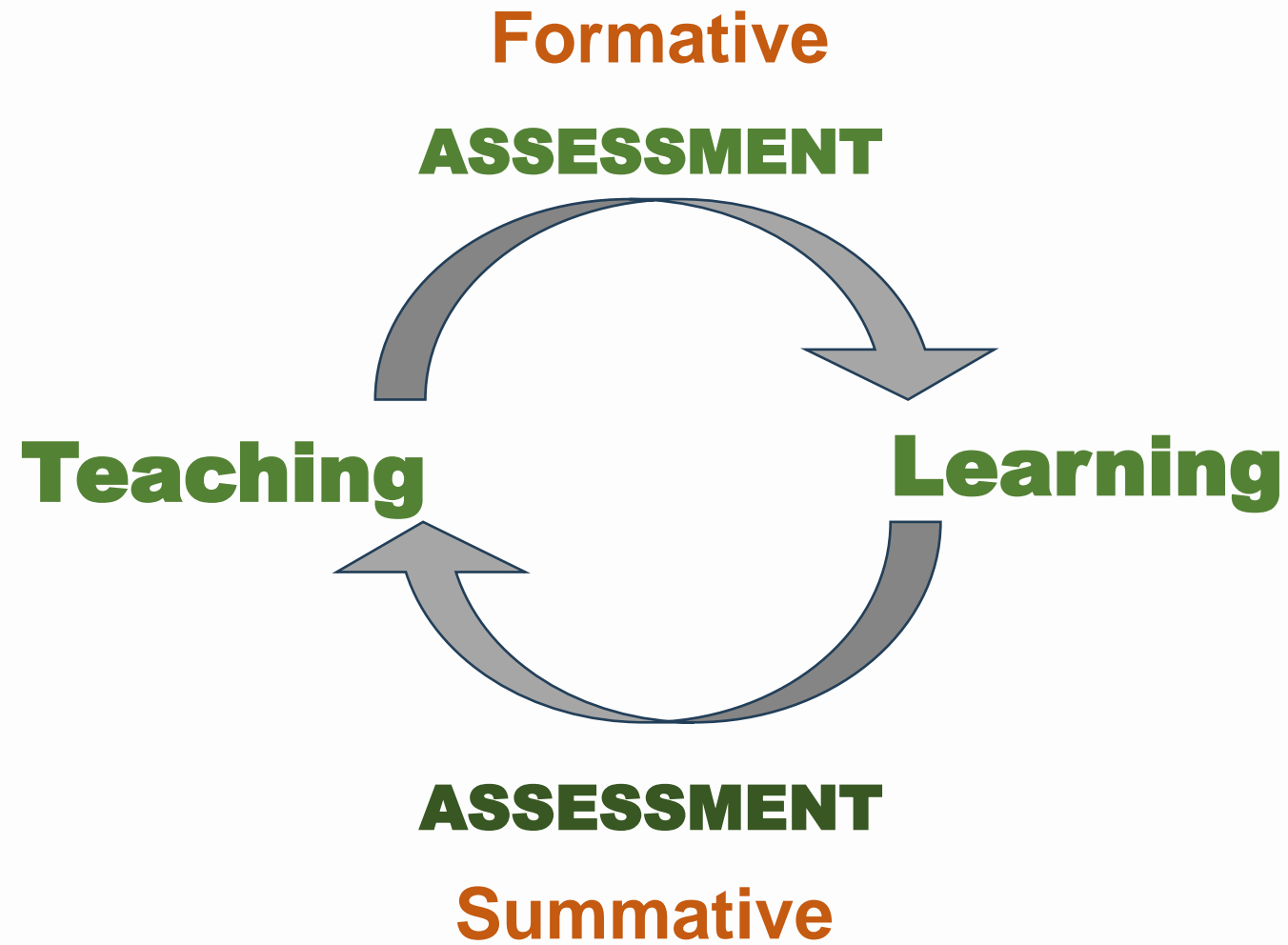
 Can the three segments shown form a triangle?

65

43

21





Formative Assessment

- Daily work
- 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
30 marks	30 marks
Topics: <ul style="list-style-type: none"> • Whole Numbers • Fractions 	Topics: <ul style="list-style-type: none"> • Area of Triangle • Volume • Decimals



P5 Mathematics End-Year Examination Format

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Weighting	Duration
1 No Calculator	A	MCQ	10	1	10	50%	1 h 10 min
			8	2	16		
	B	SAQ	12	2	24		
2 Calculator		SAQ	5	2	10	50%	1 h 20 min
		LAQ/ Structured	10	3, 4, 5	40		
Total			45	-	100		2 h 30 min



Introduction of Calculator at P5

- Achieve a better balance between the emphasis on computational skills and problem-solving skills in learning and assessment
- Widen the repertoire of teaching and learning approaches to include investigations in authentic situations
- Guidelines on the use of calculator and approved calculator can be found on [SEAB](#) website



Empowering Math Learning at Home

○

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



o



Thank you!

