Primary 5
Mathematics
Curriculum Briefing

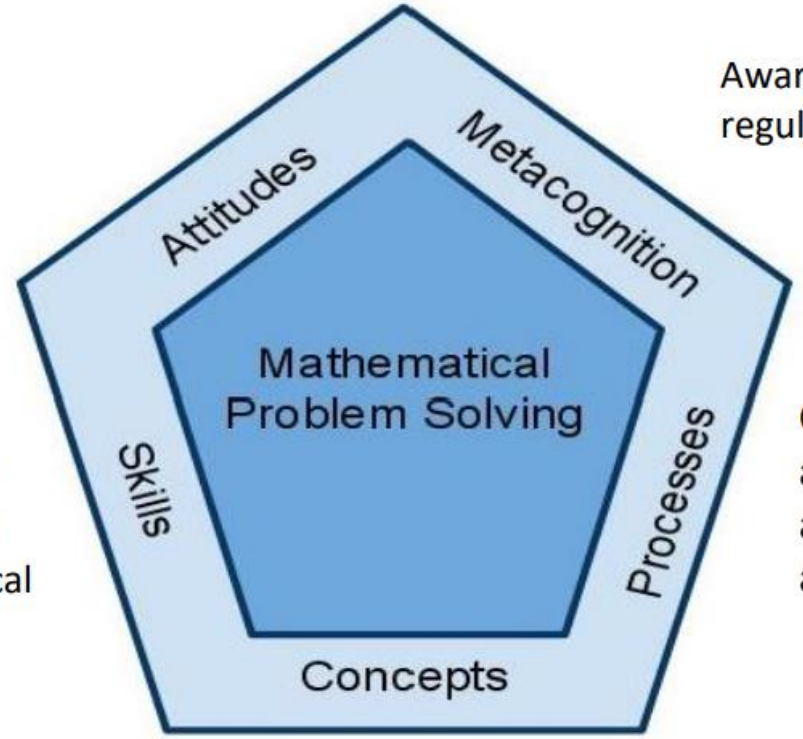
Outline

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

MOE Mathematics Curriculum Framework

Belief, appreciation, confidence, motivation, interest and perseverance

Awareness, monitoring and regulation of thought processes



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

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
Fraction and Division	Angles
Four Operations of Fractions	Properties of Triangles
Area of Triangle	Properties of Parallelogram, Rhombus & Trapezium
Volume	
Decimals	

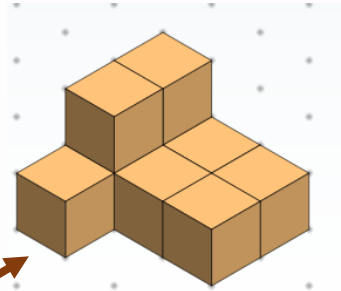
Approach to Teaching & Learning

CONCRETE → PICTORIAL → ABSTRACT

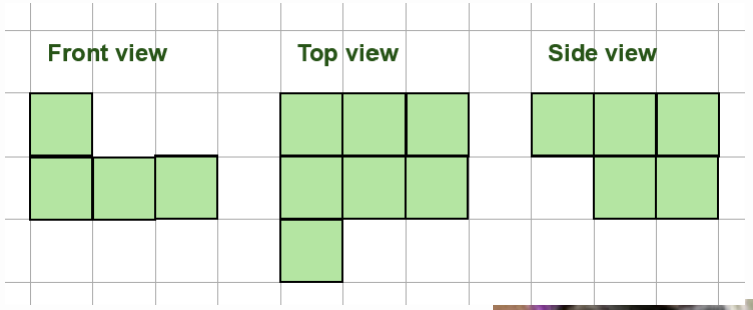
P5 – Volume

Concrete

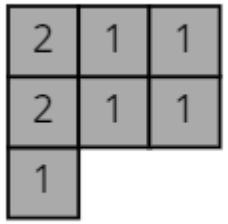
Pictorial



Abstract



Mat View

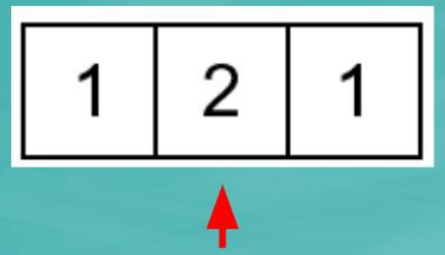


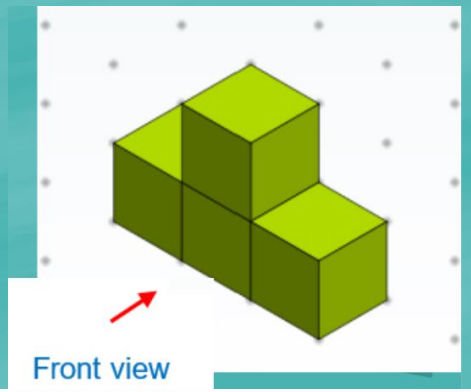
The power of

VISUALISATION

Without building the solid, describe in words the following solid figures.

(a)





Activity Based Lesson

Geometry Supplementary Practice

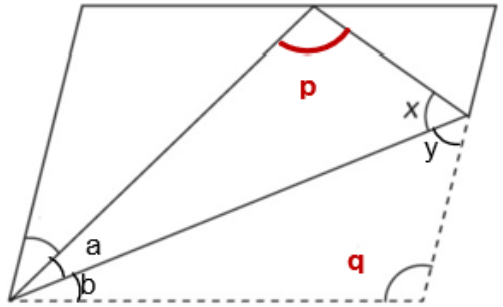
Name:_____ Date:_____

Class: P5 _____

Discover

Fold your parallelogram as shown below

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

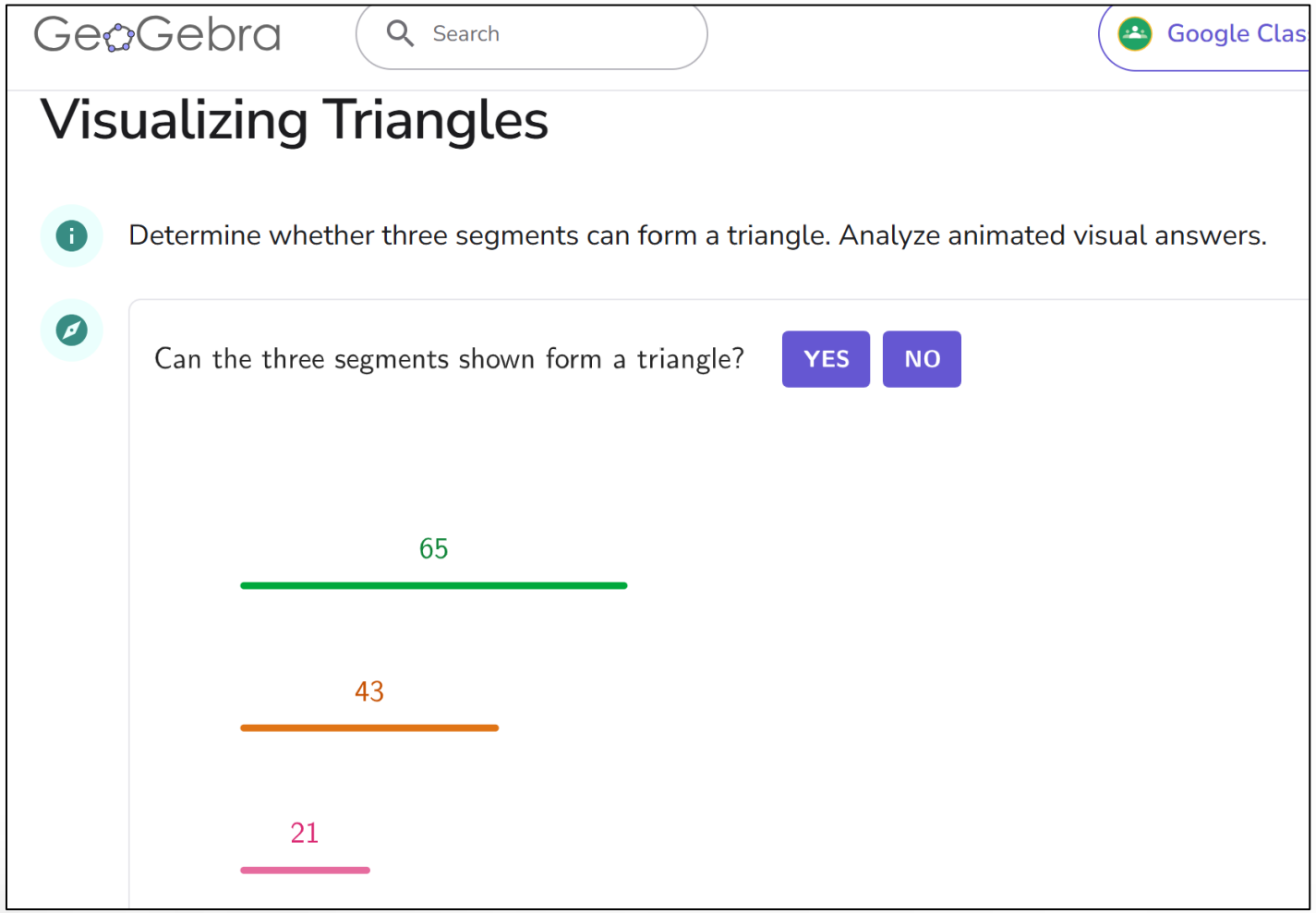


Measure ∠x and ∠y. What do you notice about the two angles?

_____

_____

ICT Enriched Lesson

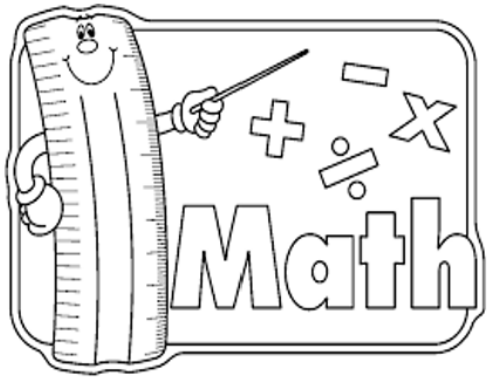


Heuristics Skills

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: – 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	

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

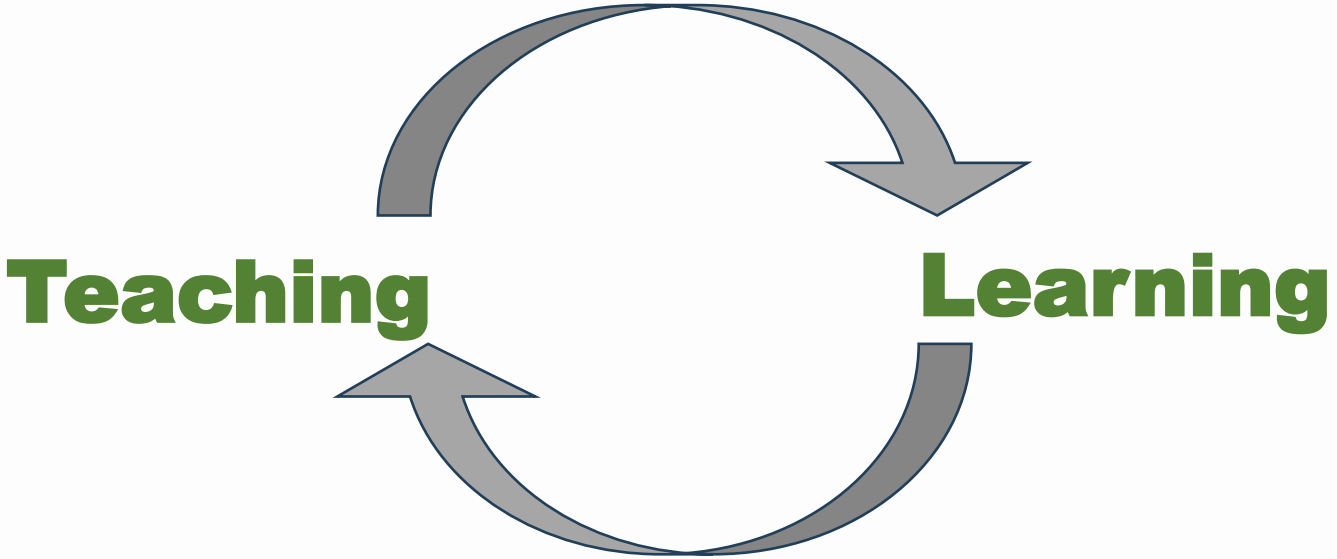
- Follow your plan step by step.
- Write the equations and check each step as you go

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



ASSESSMENT

Summative

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: • Whole Numbers • Fractions	Topics: • 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

Use 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

Good habits for your child to adopt

- Read the question carefully
- Take note of key words and information given.
- Present their solution clearly
- Annotate or write short statements for the working
- Check that they have computed the answer correctly at each step before moving on to the next step
- Include relevant units in their answer
- Read the question again to ensure that they have answered the question

Empowering Math Learning at Home

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

Thank you!