

Primary 6

Mathematics

Curriculum Briefing



Outline

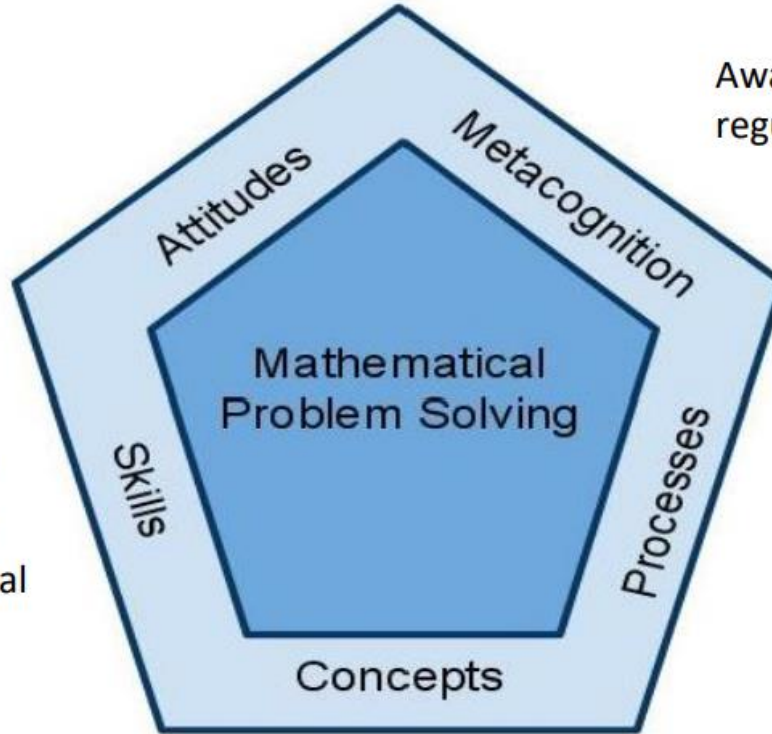
- Mathematics Curriculum Framework
- Mission
- Approach to Teaching & Learning
- Assessment



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 P6 Standard Math

Fractions	Speed
Ratio	Volume of Solids and Liquids
Percentage	Pie Charts
Circles	Algebra
Angles in Geometric Figures	Solid Figures and Nets



Content Sequence for P6 Foundation Math

Fractions	Area of Triangles
Decimals	Triangles, Squares and Rectangles
Percentage	Pie Charts
Average	Volume



Approach to Teaching & Learning

CONCRETE

PICTORIAL

ABSTRACT



Approach to Teaching & Learning



Fraction Discs



3-D solids

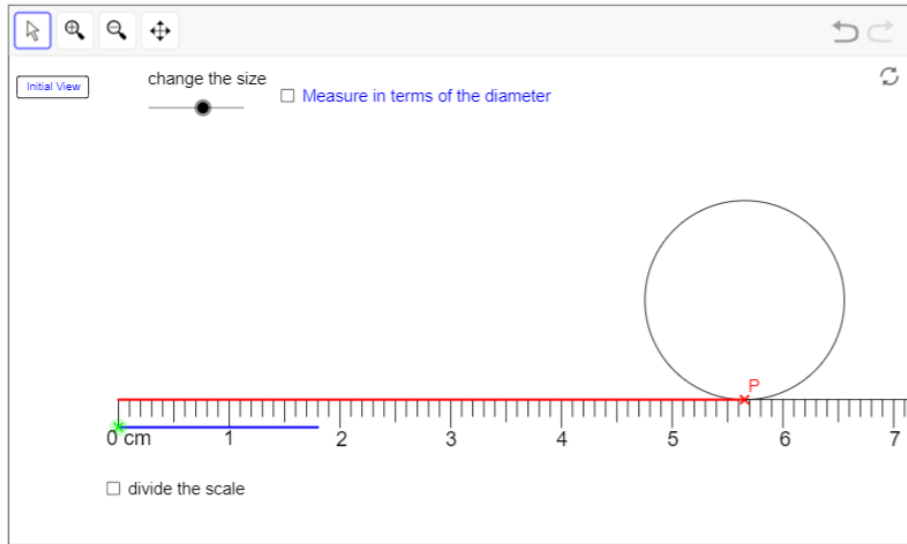


Nets

Use of concrete manipulatives to develop conceptual understanding



ICT Enriched Lessons



The actual value is represented by π , which is read as **pi**.
 π is given by $\frac{22}{7}$ which is about **3.14**.

So,


**The circumference of any circle =
 $\pi \times \text{Diameter}$**



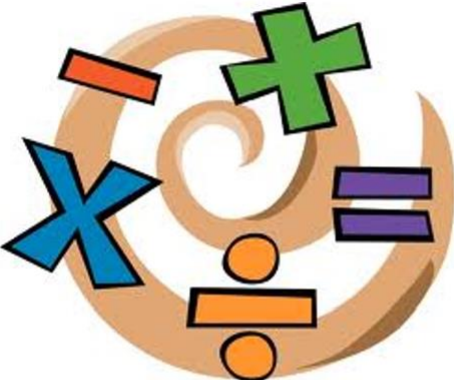
	A	B	C	D
1	Names:	Diameter	Circumference	Circumference ÷ Diameter
4	Grace	1.5	4.7	3.13
5	Melanie	1.4	4.4	3.14
6	Sasha	1.7	5.3	3.12
7	Erina	1.1	3.5	3.18
8	Irdina	2.6	8.2	3.15
9	Tian Yi	1.2	3.8	3.17
10	Arra	1	3.1	3.10
11	Abeerah	1.2	3.8	3.17
12	Anaya	1.7	5.3	3.12
13	Cheryl	1	3.1	3.10
14				



Heuristics Skills




RAFFLES GIRLS' PRIMARY SCHOOL
MATHEMATICS
PRIMARY 6



Whole Number

Problem Sums

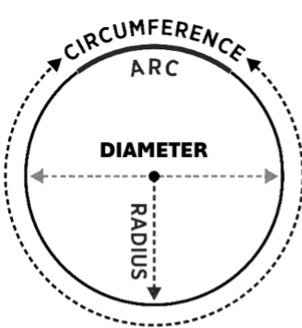
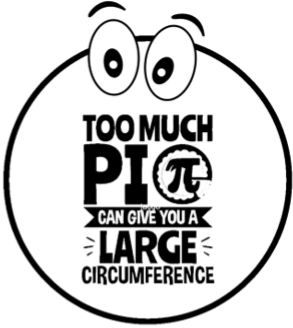
Key Concepts	Completed
1. Constant Difference	
2. Proportion / Grouping	
3. More than / Less than with Internal Transfer	
4. More than / Less than	



Ratio

Problem Sums

Concepts	
1. Repeated Identity	
2. One Item Constant	
3. Constant Total	
4. Constant Difference	
5. Part - Whole	
6. Number & Amount	
7. Gaps & Difference	

CIRCLES BOOKLET

S/N	Key Concept	
1	Useful Notes: <ul style="list-style-type: none"> Different types of π Formulae for circumference & area of circles Basic shapes in circles Thinking routine for composite figures 	
2	Perimeter in Composite Figures	
3	Area in Composite Figures	
4	Visualisation & Transformation (Cut-and-Paste)	



Experiential Learning

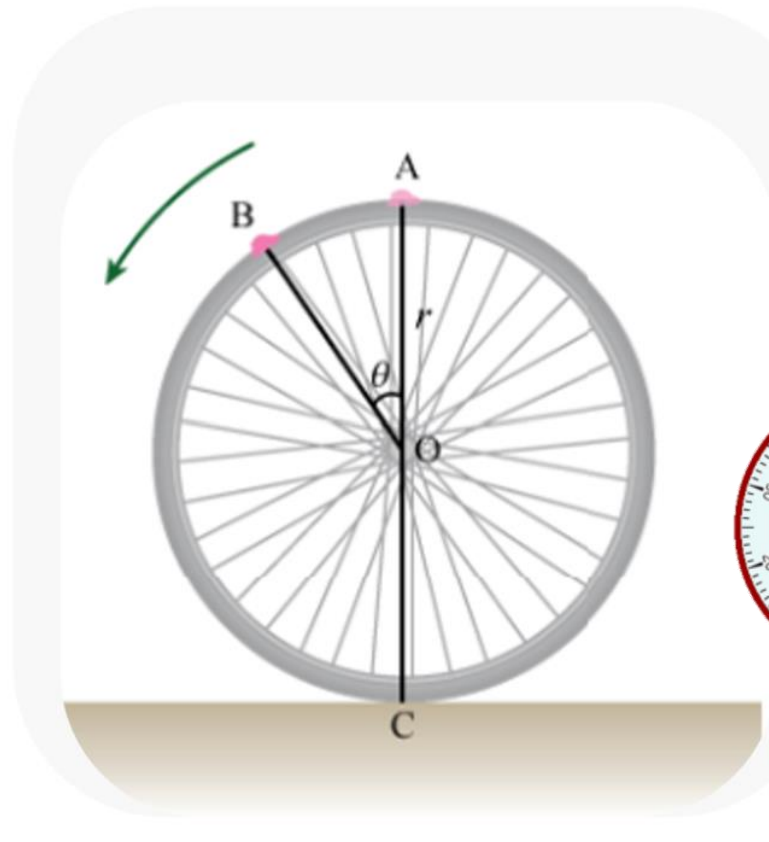


The Math Concept

Understanding and relating the circumference to the distance covered



- (9) A wheel has a radius of 21 cm. How many complete turns must it make to cover a distance of 1980 cm? (Take $\pi = \frac{22}{7}$)



Empathize

The pain point and the why

YEO YUAN XIN, TYLIA NOELLE
Response • 0

To ensure that the reliability of the results
and make sure it is accurate

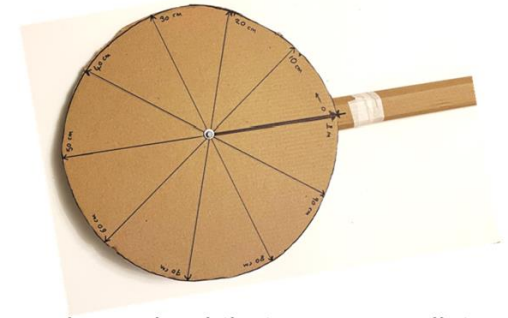
KASLYN
Response

To know
are

Define

Find the perimeter of the basketball court.

Ideation



How to make a wheel that measures distances

Prototype

Making the measuring wheel



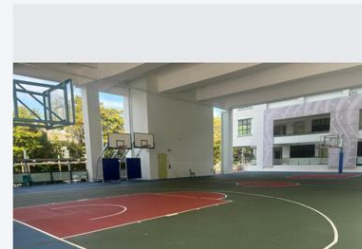
Testing

Student use their designed wheel to measure
the basketball court

Q1

RECOMMENDED 1 min

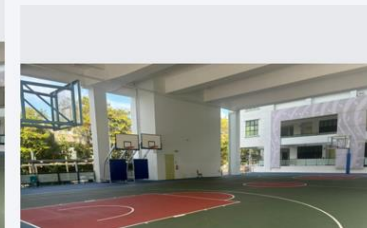
Estimate the length and breadth of the basketball
court.

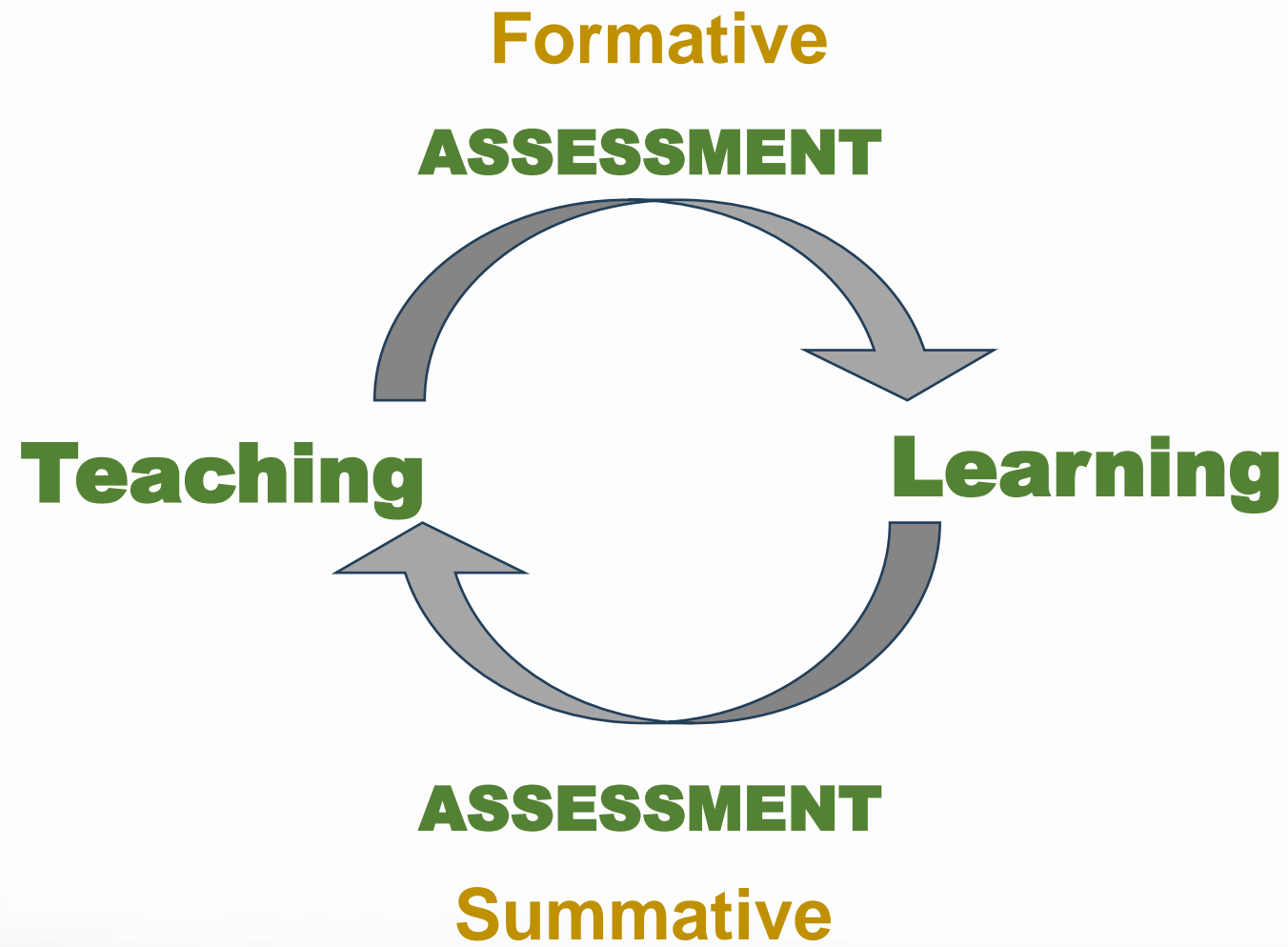


Q2

RECOMMENDED 4 min

Using your designed wheel, measure the length and
breadth of the basketball court.





Formative Assessment

- Daily work
- Topical Review
- Teacher's observation and feedback



P6 Standard Mathematics

Weighted Assessment 1	Weighted Assessment 2
Term 1 Week 9	Term 2 Week 9
30 marks	30 marks
Topics: <ul style="list-style-type: none">• Whole Numbers• Fractions	Topics: <ul style="list-style-type: none">• Ratio• Percentage• Measurement



P6 Foundation Mathematics

Weighted Assessment 1	Weighted Assessment 2
Term 1 Week 9	Term 2 Week 9
30 marks	30 marks
Topics: <ul style="list-style-type: none">• Whole Numbers• Fractions• Decimals	Topics: <ul style="list-style-type: none">• Percentage• Average• Area of Triangles



PSLE Standard Mathematics Exam Format

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1	A	Multiple-choice	10	1	10	1 h
			5	2	10	
	B	Short-answer	5	1	5	
			10	2	20	
2		Short-answer	5	2	10	1 h 30 min
		Structured/ Long-answer	12	3, 4 or 5	45	
Total			47	-	100	2 h 30 min



PSLE Foundation Mathematics Exam Format

Paper	Booklet	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1	A	Multiple-choice	10	1	10	1 h
			10	2	20	
	B	Short-answer	10	2	20	
2		Short-answer	10	2	20	1 h
		Structured	6	3 or 4	20	
Total			46	-	90	2 h



Empowering Math Learning at Home

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



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Thank you!

