

Curriculum Briefing

P6 Mathematics



Vision

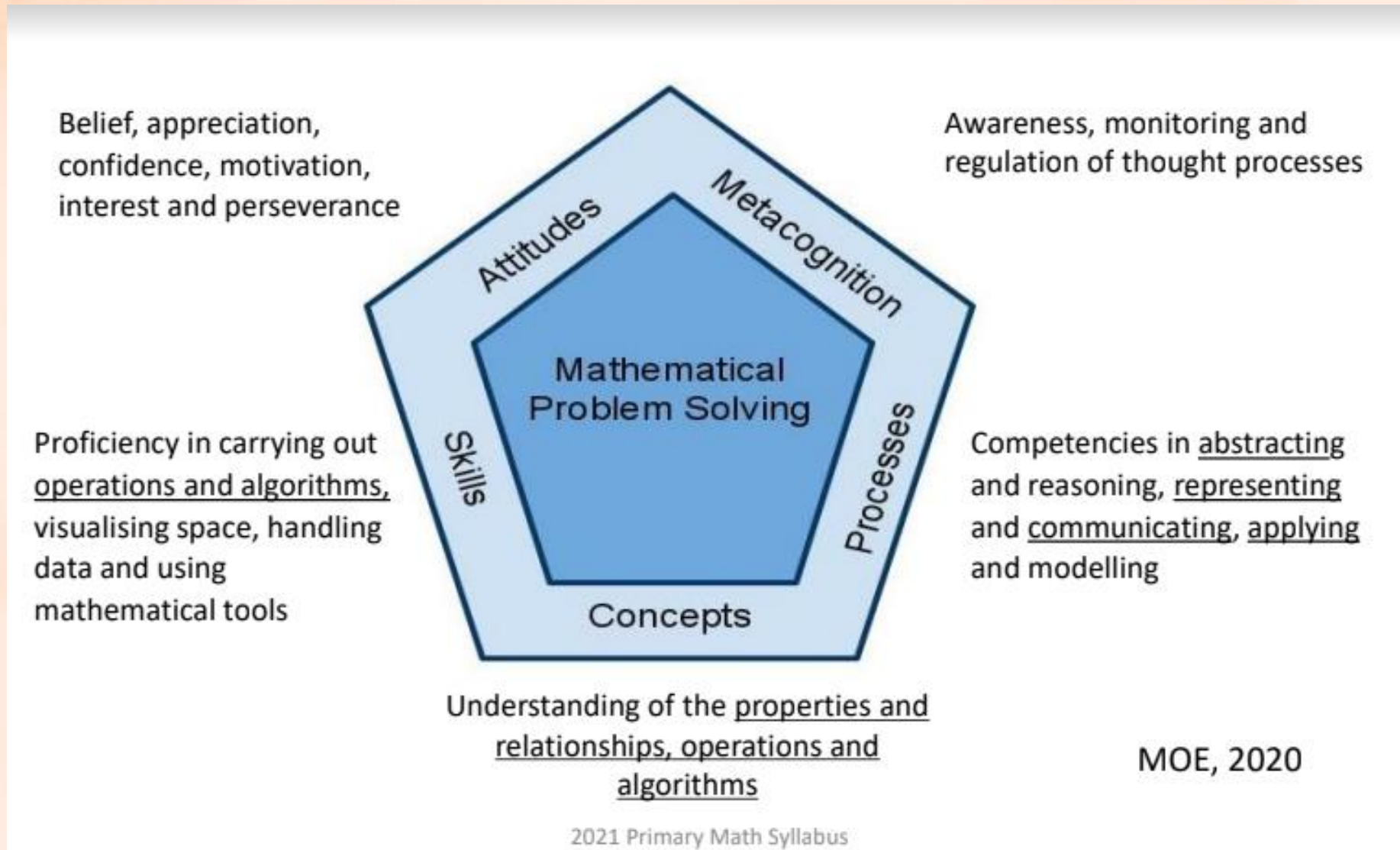
- A community of confident and motivated pupils who are both **effective problem-solvers** and **team-players**.

Mission

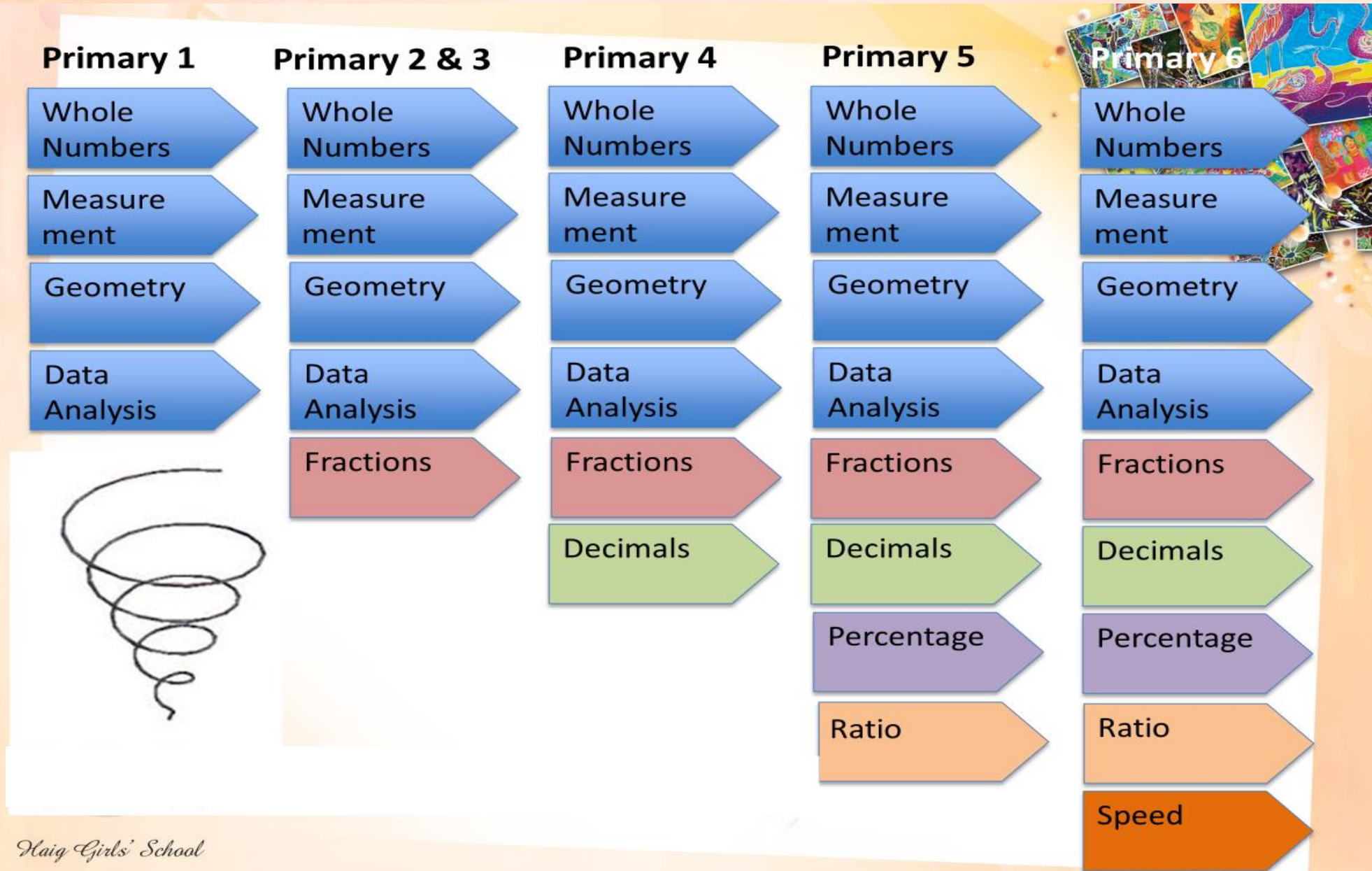
- To equip pupils with the necessary mathematical knowledge and skills for **everyday life** and for **continuous learning** in mathematics and related disciplines.



Mathematics Curriculum Framework



Spiral Approach Math Curriculum



Content Sequence for P6 Standard Math

- | | |
|--|--|
| <ul style="list-style-type: none">• Algebra• Fractions• Ratio• Percentage• Circles• Angles in Geometric Figures | <ul style="list-style-type: none">• Speed• Volume of Solids and Liquids• Pie Charts• Solid Figures and Nets |
|--|--|

Content Sequence for P6 Foundation Math

- | | |
|---|---|
| <ul style="list-style-type: none">• Fractions• Decimals• Percentage• Average | <ul style="list-style-type: none">• Area of Triangles• Triangles, Squares and Rectangles• Pie Charts• Volume |
|---|---|

Hands-On Learning Experiences

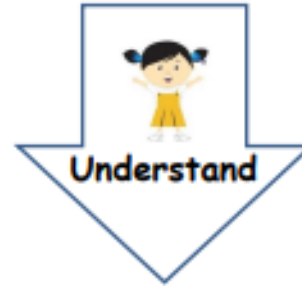


Leveraging on Technology – SLS / Koobits



Polya's 4-step Approach to Problem Solving

Mathematical Problem Solving Process



Circle the numbers



Underline the keywords



Box the question



Explain and Annotate



Choose a Strategy/Heuristics

- Model Method
- Find a Pattern
- Make a List
- Working Backwards
- Guess and Check



- Write number equations clearly
- Add, subtract, multiply, divide
- Use mathematical tools such as calculator, ruler, protractor and set-squares
- Apply formula



- Have I answered the question?
- **S**: Standard Units of Measurement
- **T**: Transfer Error
- **A**: Accuracy
- **R**: Reasonableness
- Is there another way I can solve and check my answer?

Problem Solving Heuristics

Commonly used:

- Draw a model or diagram
- Make a systematic list/ tabulation
- Use before / after concept
- Look for a pattern
- Guess and Check
- Supposition
- Working Backwards
- Algebraic method



Haig Girls' Math Talk



Explain

I solved this problem by...

I agree or disagree because ...

I know the answer is ... because ...

Evaluate

Why did you choose this strategy?

My strategy is similar/different because ...

How do you know your answer is right?

Extend

How is this like other problems you have solved?

Is there another way you can solve this?

I still have a question about ...

P6 Standard Mathematics

	Term 1	Term 2	Term 3
Assessments	Weighted Assessment 1	Weighted Assessment 2	Prelim Examination
Total Marks	30 marks	30 marks	100 marks
Duration	1 h	1 h	<u>Standard</u> Paper 1: 1 h Paper 2: 1h 30 min
Weightage	15%	15%	70%

P6 Foundation Mathematics

	Term 1	Term 2	Term 3
Assessments	Weighted Assessment 1	Weighted Assessment 2	Prelim Examination
Total Marks	30 marks	30 marks	90 marks
Duration	50 min	50 min	<u>Foundation</u> Paper 1: 1 h Paper 2: 1h
Weightage	15%	15%	70%

Prelim and PSLE **Standard Mathematics** Exam Format

Paper	Item Type	Number of Questions	Number of Marks Per Question	Total Marks	Duration
1	Booklet A MCQ	10	1m	10m	1 h No calculators
		5	2m	10m	
	Booklet B Short Answer Qns	5	1m	5m	
		10	2m	20m	
2	Short Answer Qns	5	2m	10m	1h 30min The use of calculators is allowed.
	Structured / Long Answer Qns	12	3m	18m	
			4m	12m	
			5m	15m	
	Total	47	-	100m	2h 30 min

Prelim and PSLE **Foundation Mathematics** Exam Format

Paper	Item Type	Number of Questions	Number of Marks Per Question	Total Marks	Duration
1	Booklet A	10	1m	10m	1 h No calculators
	MCQ	10	2m	20m	
	Booklet B Short Answer Qns	10	2m	20m	
2	Short Answer Qns	10	2m	10m	1h The use of calculators is allowed.
	Structured / Long Answer Qns	6	3m or 4m	20m	
	Total	46	-	90m	2h

Good Time Management is Important

Paper 1 (60 min)	30 Questions	Average Time spent for each Question	Time left for checking answers
		1.5 min ($1.5 \times 30 = 45$)	15 min
		2 min ($2 \times 30 = 60$)	No time to check!
Paper 2 (90 min)	17 Questions	Average Time spent for each Question	Time left for checking answers
		5 min ($5 \times 17 = 85$)	5 min
		6 min ($6 \times 17 = 102$)	No time to finish and check!

PSLE Format

- Paper 2 allows pupils the use of calculators to solve problems.
- Only calculators that are approved by SEAB will be allowed for use in the examinations.
- The list of approved calculators is available on the SEAB website - <http://www.seab.gov.sg>

Booklet on Instructions for PSLE candidates



How Do We Support Your Child?

- **Review Core Topics**

Cover key concepts from Primary 3 to Primary 5, while introducing new topics such as Algebra, Circles, Speed, Nets, and Pie Charts.

- **Practise PSLE Questions**

Solve PSLE exam-type questions and papers from other schools.

- **Apply Problem-Solving Techniques**

Use various heuristics to tackle non-routine questions effectively.

- **Refine Answer-Checking Skills**

Learn methods such as checking for reasonableness, working backwards, and reflecting on efficient strategies to avoid common errors.



How Do We Support Your Child?

- **Time and Stress Management**

Practise good time management, neat solution presentation, and tips to handle stress.

- **Master Content Through Feedback**

Strengthen understanding using topical worksheets, questioning, and constructive feedback.

- **Consolidate and Revise Concepts**

Utilize SLS learning packages, Koobits, topical notes, and timed practices to review key topics thoroughly.



Pupils are expected to

- ✓ be attentive during lessons
- ✓ complete and hand in work on time
- ✓ present solutions in an organised way, showing all working steps and standard units of measurement
- ✓ go through their answers and check them carefully
- ✓ find out the reason behind each mistake made and do their corrections
- ✓ seek help from teacher to clarify any doubts

Supporting Your Child

- ✓ **Time management** – set a time limit for timed practice for Paper 1 and Paper 2
- ✓ To develop **computational fluency and number sense**, ensure no calculators is used in daily work unless calculator symbol is indicated for problem solving.
- ✓ Make learning of **Math relevant and fun** - Talk about Math as used in day-to-day situation.
- ✓ If your child/ward has difficulty with her homework, **do not** be too quick to give her the answers but guide her with questions and indicate on the homework ‘assisted’ or ‘guided’.
- ✓ **Encourage** your child and **affirm her effort** and improvement made.



Thank you

- Mrs Charlotte Mok (HOD Mathematics)
wee_jee_chen_charlotte@schools.gov.sg
- Ms Kong Seok Fun (Senior Teacher)
kong_seok_fun@schools.gov.sg

