

MATHEMATICS

P3 Curriculum Briefing



Vision

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

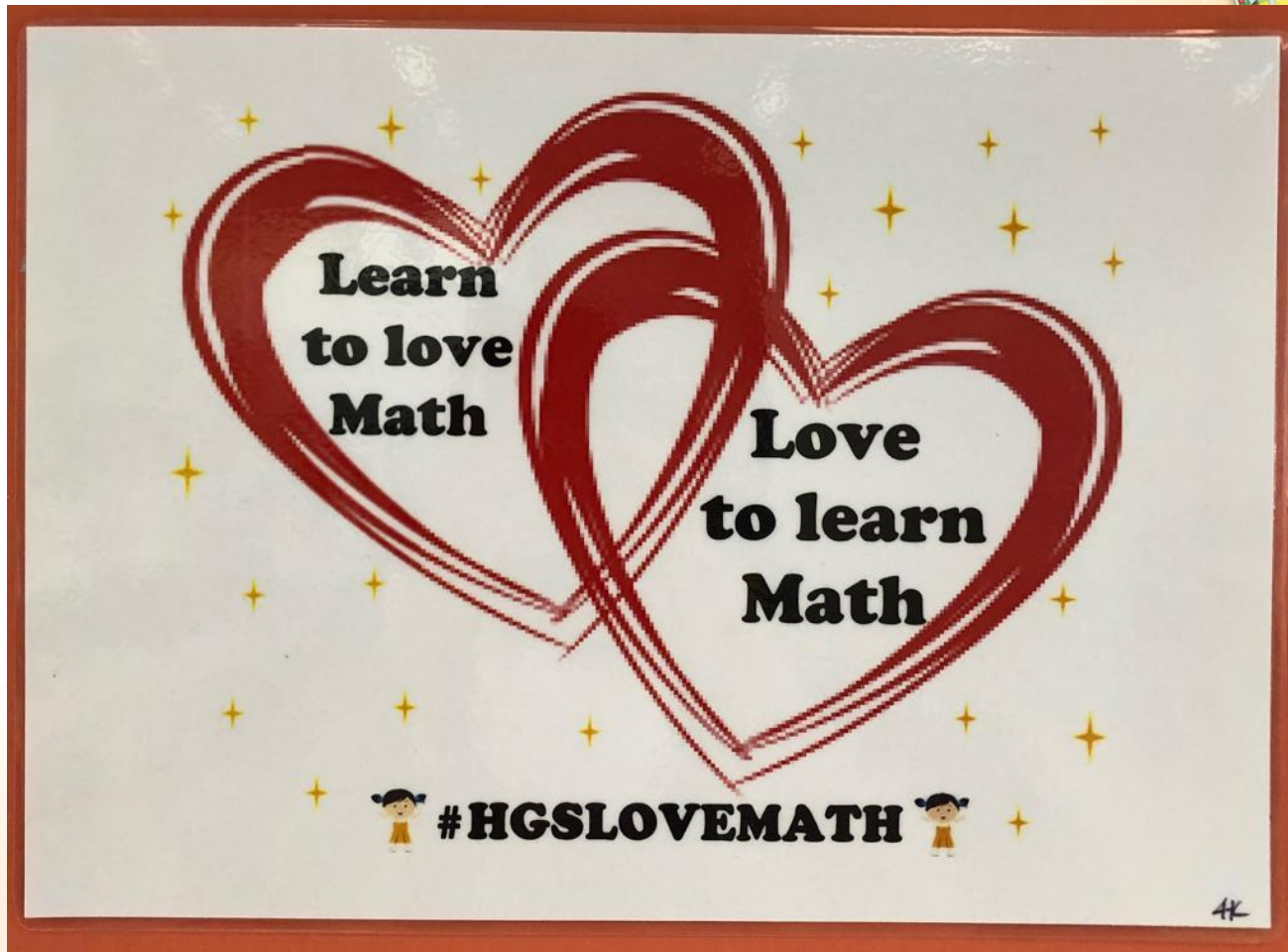


Mission

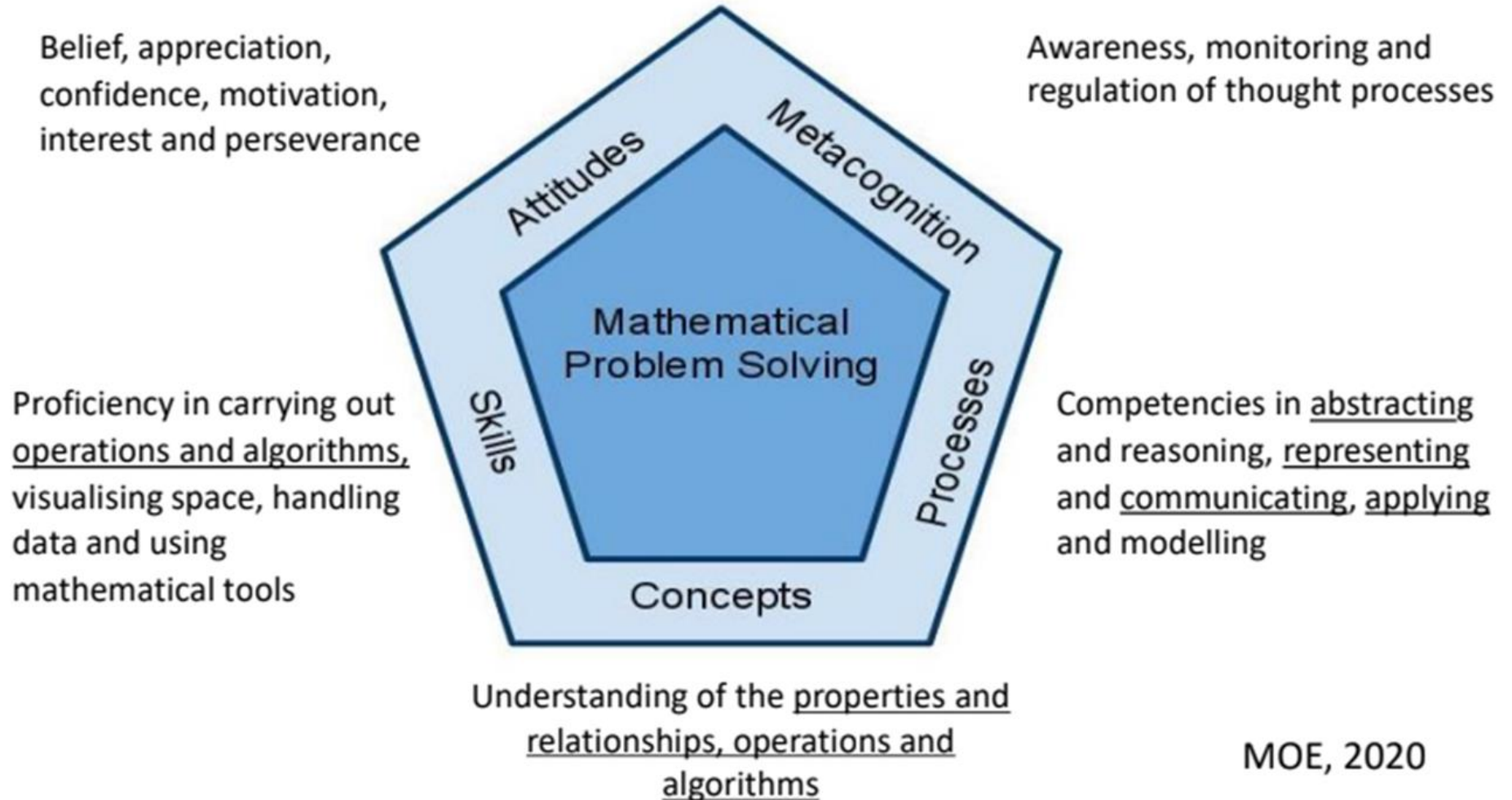
To equip pupils with the necessary mathematical knowledge and skills for **everyday life** and for **continuous learning** in mathematics and related disciplines.



We hope our girls will...



MOE MATHEMATICS CURRICULUM FRAMEWORK



MOE, 2020

Primary 1

Whole Numbers

Measurement

Geometry

Data Analysis

Primary 2 & 3

Whole Numbers

Measurement

Geometry

Data Analysis

Fractions

Primary 4

Whole Numbers

Measurement

Geometry

Data Analysis

Fractions

Decimals

Primary 5

Whole Numbers

Measurement

Geometry

Data Analysis

Fractions

Decimals

Percentage

Ratio

Primary 6

Whole Numbers

Measurement

Geometry

Data Analysis

Fractions

Decimals

Percentage

Ratio

Speed



Spiral Approach in Math Curriculum
Concepts taught are built on concepts taught in previous years.

Topics	P 2	P 3
Whole Numbers	Numbers up to 1000 Addition & Subtraction Multiplication & Division	Numbers up to 10 000 Addition & Subtraction Multiplication & Division
Money	Comparing Converting	Addition & Subtraction
Measurement	Length Mass Time Volume	Length Mass Volume Time
Geometry	2-D Shapes 3-D Shapes	Angles Perpendicular and Parallel lines Area and Perimeter (square and rectangle)
Data Representation and Interpretation	Picture Graphs (with scales)	Bar Graphs (with scales)
Fractions	Fractions of a Whole Addition & Subtraction	Equivalent Fractions Addition & Subtraction

Mathematics Syllabus (MOE)

<https://www.moe.gov.sg/primary/curriculum/syllabus>



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Last Updated: 10 February 2021

Primary school subjects and syllabuses

Primary school students will be introduced to subject-based learning where they will learn subjects such as languages, mathematics, science, art, music and social studies. Learn more about the syllabus taught in the classroom.

Subjects

- [2021 Mathematics Syllabus \(Primary 1 to 6\)](#)  (starting with 2021 Primary One cohort)
- [2013 Mathematics Syllabus \(Primary 1 to 6\)](#) 

Ask Jamie @ MOE


Ask about P1, S1, JAE, MK, DSA,
RS, PSEA, School Fees, SCC



Books and Materials Used

- ❖ *My Pals Are Here!* Pupil's Book 3A and 3B
- ❖ *My Pals Are Here!* Workbook 3A and 3B
- ❖ *My Pals Are Here!* Topical Tests
- ❖ P3 HGS Heuristics WS
- ❖ Math File (red folder)
- ❖ Math Bank Book





Problem Solving Heuristics
are general methods or strategies
of achieving a solution to a given
problem.



Whole School Heuristics Approach

No.	Heuristics	P1	P2	P3	P4	P5	P6
1	Model Drawing: Part and Whole	✓	✓	✓	✓		
2	Model Drawing: Comparison	✓	✓	✓	✓		
3	Model Drawing: Multiplication and Division		✓	✓			
4	Model Drawing: Before and After			✓	✓	✓	✓
5	Systematic Listing	✓	✓	✓	✓	✓	✓
6	Find a Pattern	✓	✓	✓	✓	✓	✓
7	Draw a Diagram	✓					✓
8	Restate The Problem					✓	
9	Guess and Check			✓	✓	✓	✓
10	Working Backwards			✓		✓	✓
11	Make an Assumption				✓	✓	✓

Types of Assessments



When are pupils assessed?	Non-weighted Assessments	Weighted Assessments
Term 1 to 4	<ul style="list-style-type: none"> • Class activities • Math Practices eg. Workbook Test Book Heuristics worksheets • Questioning and Feedbacks • Math Journal • Practice Papers 	<p><u>Term 2</u></p> <ul style="list-style-type: none"> • Weighted Assessment <p><u>Term 3</u></p> <ul style="list-style-type: none"> • Weighted Assessment <p><u>Term 4</u></p> <ul style="list-style-type: none"> • End-of Year Exam <p><u>Question Types:</u> MCQs, Fill in the Blanks and Word Problems</p> <p>* Dates and topics to be tested will be provided in the HA letters.</p>

Format for P3 Weighted Assessments

	Term 2 Weighted Assessment	Term 3 Weighted Assessment	Term 4 End-of-Year Exam
Duration	50 min	50 min	1h 45 min
Weightage	15%	15%	70%
Total Marks	30	30	80
Format: (No. of Questions)			
- MCQ	5	5	15
- Short- Answer Question	10	10	20
- Word Problem	5	5	6



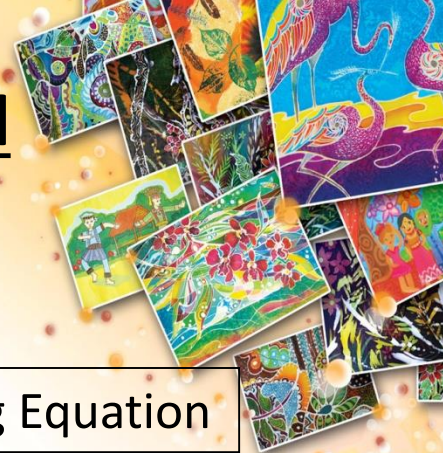
Common codes used during marking of Math questions/word problems



Codes	Representations
WM	Wrong method to arrive at the same answer
CC	Careless calculation (method is correct)
MU	Missing Units
ME	Missing Equation



Some examples of how marking codes are used



What was their total score?

336
+ 42
378

378
- 61
317

378
+ 317
+ 336
1031

Jane $\rightarrow 336 + 42 = 378$) ME!

Peter $\rightarrow 378 - 61 = 317$)

Total $\rightarrow 378 + 317 + 336 = 1031$)

Answer: 1031

Missing Equation

(2) Farisha buys 17 hairclips.
 Sarah buys 3 more hairclips than Farisha.
 How many hairclips does Sarah buy?

Sarah $\rightarrow 17 + 3 = 19$ X cc
 (20) c

Sarah buys 19 X hairclips.
 (20) c

Lesson 4 Solving Word Problems: Addition

Careless Calculation



Expectations of Our Students

- Listen and participate actively
 - Be on task
 - Be prepared
 - bring the necessary books
 - handing in work on time
 - Ask when in doubt
 - Take pride in her work
 - check through, neat handwriting
- Persevere – Keep Trying and Don't Give Up



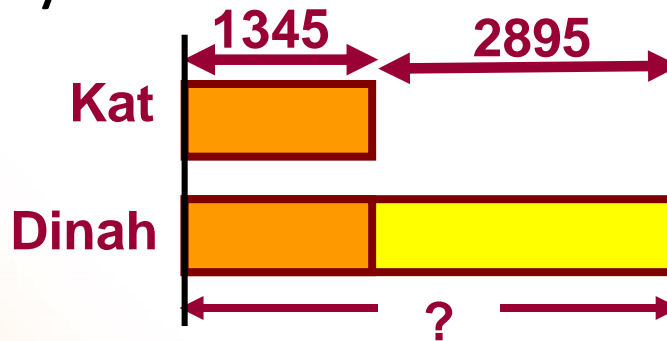
Neat and Clear Presentation of Mathematical Solutions

1. All mathematical equations to be written.
2. Models are to be labelled properly.
3. Workings to be shown and aligned on the right hand side of each page.

Kat bought 1345 balloons.

Dinah bought 2895 **more** balloons than Kat.

How many balloons did Dinah buy?



$$\begin{array}{r} 1345 \\ + 2895 \\ \hline 4240 \end{array}$$

Dinah's Balloons $\rightarrow 1345 + 2895 = 4240$

Ans: 4240



How Parents Can Help

- Please ensure **school work** is completed **first**.
- Work and **communicate** closely with your child's Math Teacher.



- **Follow up** on homework daily
 - ask questions that guide without telling them the answer.



Prompt Further Thinking

- How do you know that ...?
- What does this tell us about ...?
- How can we explain ...?
- What did you see / know ?
- What did you see/ know that makes you say so?



Probe Understanding

- Is it possible that ...? **Give examples**
- What would happen if ...?
- Why ...?
- Why not ...?



How Parents Can Help

- Train your child to show proper and detailed **working** steps.
- Encourage your child to **share** her **solutions** with you.
- Go through the **steps** in problem solving.
- Encourage her to **persevere**.



Mathematical Problem Solving Process

	C Circle the numbers
U	Underline the question
B	Box the key words
E	Explain and Write Notes

Plan

Choose a Strategy/Heuristics

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

Solve

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

Check

- 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?



How Parents Can Help

- Ensure your child knows the **multiplication tables well especially 6, 7, 8 and 9.**

TIMES TABLE CHART 6 TO 10				
6 X 1 = 6	7 X 1 = 7	8 X 1 = 8	9 X 1 = 9	10 X 1 = 10
6 X 2 = 12	7 X 2 = 14	8 X 2 = 16	9 X 2 = 18	10 X 2 = 20
6 X 3 = 18	7 X 3 = 21	8 X 3 = 24	9 X 3 = 27	10 X 3 = 30
6 X 4 = 24	7 X 4 = 28	8 X 4 = 32	9 X 4 = 36	10 X 4 = 40
6 X 5 = 30	7 X 5 = 35	8 X 5 = 40	9 X 5 = 45	10 X 5 = 50
6 X 6 = 36	7 X 6 = 42	8 X 6 = 48	9 X 6 = 54	10 X 6 = 60
6 X 7 = 42	7 X 7 = 49	8 X 7 = 56	9 X 7 = 63	10 X 7 = 70
6 X 8 = 48	7 X 8 = 56	8 X 8 = 64	9 X 8 = 72	10 X 8 = 80
6 X 9 = 54	7 X 9 = 63	8 X 9 = 72	9 X 9 = 81	10 X 9 = 90
6 X 10 = 60	7 X 10 = 70	8 X 10 = 80	9 X 10 = 90	10 X 10 = 100

- **Relate Math concepts to daily life examples.** E.g mass of a packet of rice, cutting the pizza into equal parts is about fractions, 3D objects around us
- Provide a positive environment – **encourage and praise** your child's effort.



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