MATHEMATICS

Information for Primary 5 Parents





Primary Mathematics (Laying a strong foundation)

The Primary Mathematics syllabus aims to enable all students to:

•Acquire mathematical concepts and skills for everyday use and for continuous learning in Mathematics.

•Develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving; and

•Build confidence and foster interest in Mathematics

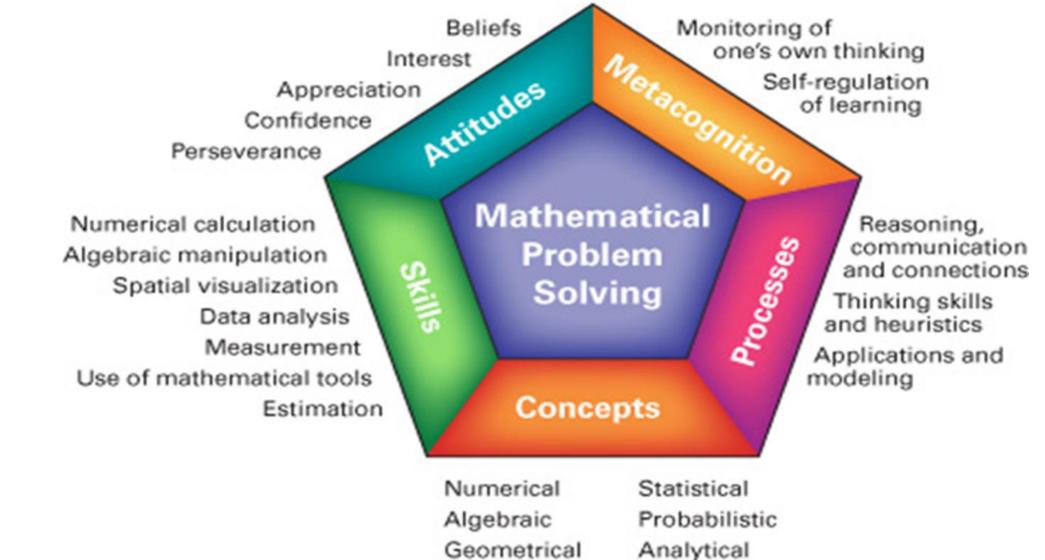


Mathematics Department Vision

A Creative, Innovative and Effective Mathematics Problem Solver



Ma Framework



From the Singapore Ministry of Education

Ma Syllabus Organisation (S)

The syllabus is organised along three content strands with a listing of mathematical processes that cut across the 3 strands.

3 Content Strands + 1 Process Strand			
Number	Measurement and Geometry	Statistics	
 Numbers Up to 10 Million Four Operations – Whole Numbers Fraction and Division Four Operations – Fraction Four Operations - Decimals Percentage Ratio Rate 	 Area of Triangle Volume of Cube and Cuboid Angles Triangles Parallelogram, Rhombus and Trapezium 	 Average of a set of data 	
Mathematical Processes			

Reasoning, Communication, Connection, Application, Thinking Skills and Heuristics

Ma Syllabus Organisation (F)

The syllabus is organised along three content strands with a listing of mathematical processes that cut across the 3 strands.

3 Content Strands + 1 Process Strand				
Number	Measurement and Geometry	Statistics		
 Numbers Up to 10 Million Four Operations – Whole Numbers Factors and Multiples Concepts of Fractions Equivalent Fractions Mixed Numbers and Improper Fractions Four Operations – Fractions Decimals Up to 3 Decimal Places Four Operations – Decimals Rate 	 Time Area and Perimeter Volume of Cube and Cuboid Perpendicular and Parallel Lines Angles Rectangle and Square 	 Tables, Bar Graphs and Line Graphs 		
Mathematical Processes				

Reasoning, Communication, Connection, Application, Thinking Skills and Heuristics

Heuristics (P1 to P5)

Draw a diagram/ model

Make a systematic list/ tabulation

Look for patterns

Guess and Check

Act it Out

Use Before-and-After Concept

Work Backwards

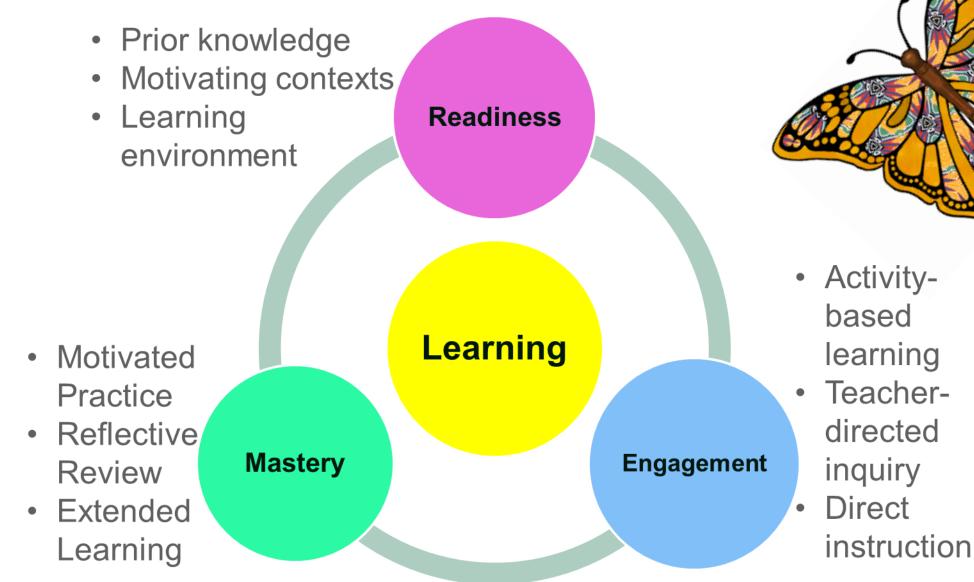
Restate the problem in another way

Simplify the problem

Make suppositions



Phases of Learning



Checkpoints

Daily assignments	Experiential Learning activities	Spatial Visualisation Package
Math Alive	Class, group and individual tasks	Reasoning Cartoon Package



Diagnostic Package

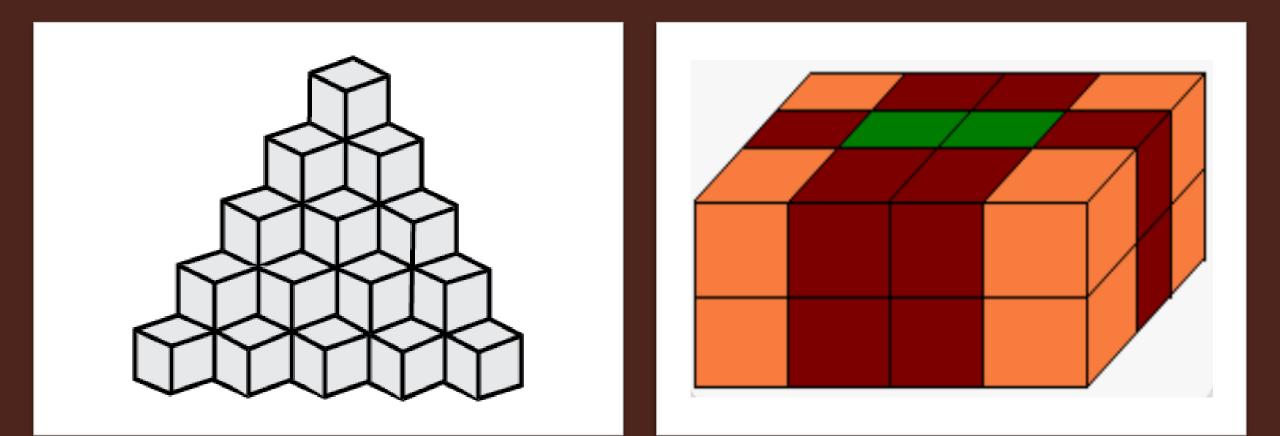
Open Ended Tasks

Reasoning Cartoon

 Develop thinking, reasoning, communication, application and metacognitive skills with the help of our cartoon characters, Chendol, Kachang, Cheng Teng and Cha Cha.



Spatial Visualization Package



Format – P5(S) & P5(F) Weighted Assessment



Duration: 45/ 55 minutes

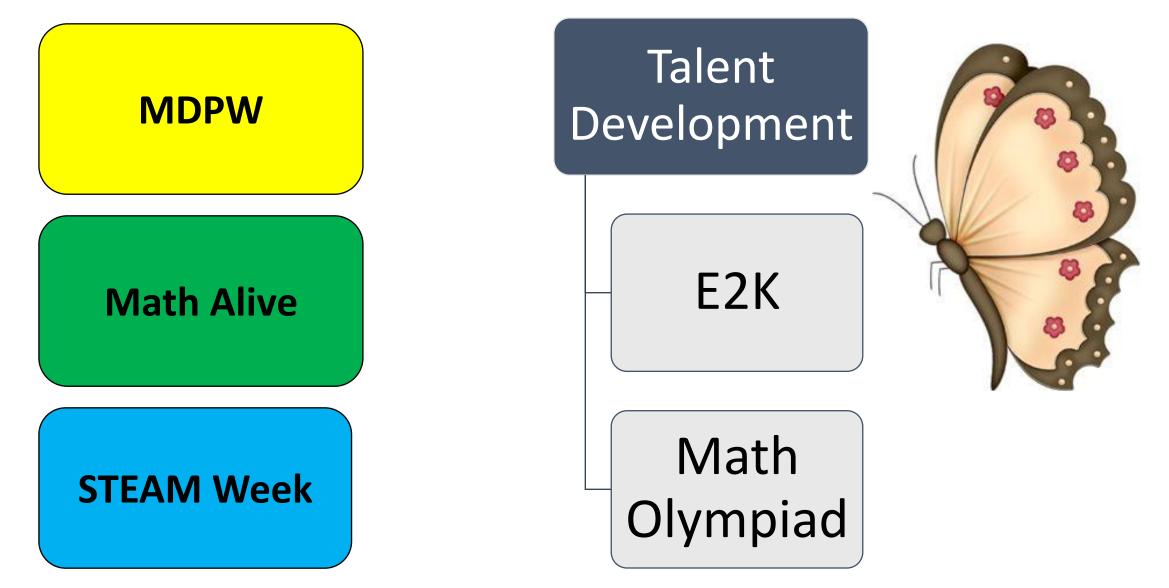
No calculator allowed

- Short-Answer Questions
- Long-Answer Questions

Format – P5(S) SA2				
Paper 1 (Booklet A)	Paper 1 (Booklet B)	Paper 2		
Duration: 1 Hour		Duration: 1 Hour and 30 Minutes		
No calculator allowed		Calculator allowed		
15 Multiple Choice Questions	15 Short-Answer Questions	 5 Short-Answer Questions 12 Long-Answer Questions 		
20 Marks	25 Marks	55 Marks		

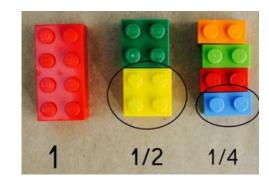
Format – P5(F) SA2			
Paper 1 (Booklet A)	Paper 1 (Booklet B)	Paper 2	
Duration: 1 Hour		Duration: 1 Hour	
No calculator allowed		Calculator allowed	
20 Multiple Choice Questions	10 Short-Answer Questions	 10 Short-Answer Questions 6 Long-Answer Questions 	
30 Marks	20 Marks	40 Marks	

Department Programmes



How can you help your child in MAKE A NUMBER! MAKE A NUMBER! MAKE A NUMBER!





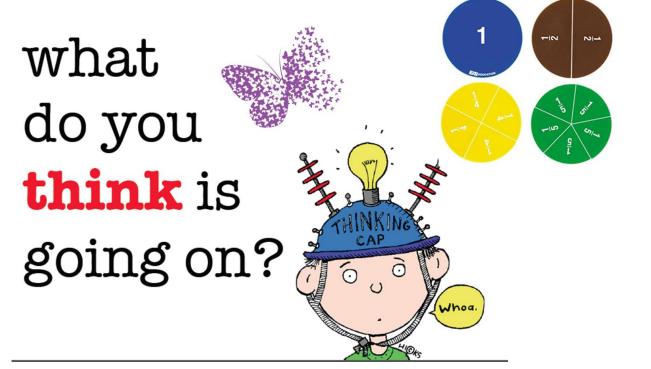
Concrete Approach (Fractions Disc/ Lego)

Ma Games

Model Drawing (Heuristics)

Making Thinking Visible







HOD Mathematics

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LH Mathematics

• See rui si@schools.gov.sg

