# 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	<ul> <li>Area of Triangle</li> <li>Volume of Cube and Cuboid</li> <li>Angles</li> <li>Triangles</li> <li>Parallelogram, Rhombus and Trapezium</li> </ul>	<ul> <li>Average of a set of data</li> </ul>
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	<ul> <li>Time</li> <li>Area and Perimeter</li> <li>Volume of Cube and Cuboid</li> <li>Perpendicular and Parallel Lines</li> <li>Angles</li> <li>Rectangle and Square</li> </ul>	<ul> <li>Tables, Bar Graphs and Line Graphs</li> </ul>
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

#### Weighting

Term 1	Term 2	Term 3	Term 4
0%	15%	15%	70%
	1 WA	1 WA	SA

#### Semestral Assessment – SA

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



**Duration: 45 to 55 minutes** 

No calculator allowed

- Short-Answer Questions
- Long-Answer Questions

#### Format – P5(S) Semestral Assessment



Paper 1 (Booklet A)	Paper 1 (Booklet B)	Paper 2
Duratio	Duration: 1 Hour and 30 Minutes	
No calculator allowed		Calculator allowed
15 Multiple Choice Questions	15 Short-Answer Questions	<ul> <li>5 Short-Answer Questions</li> <li>12 Long-Answer Questions</li> </ul>
20 Marks	25 Marks	55 Marks

#### Format – P5(F) Semestral Assessment



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	<ul> <li>10 Short-Answer Questions</li> <li>6 Long-Answer Questions</li> </ul>
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





#### **CONTACT DETAILS**

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