# Primary 4 Curriculum Briefing 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.
## We hope our girls will...



## MOE Mathematics Curriculum Framework



| Primary 1 | Primary 2 \& 3 | Primary 4 | Primary 5 | Primary 6 |
| :---: | :---: | :---: | :---: | :---: |
| Whole Numbers | Whole Numbers | Whole Numbers | Whole Numbers | Whole <br> Numbers |
| Measure ment | Measure ment | Measure ment | Measure ment | Measure ment |
| Geometry | Geometry | Geometry | Geometry | Geometry |
| Data <br> Analysis | Data <br> Analysis | Data <br> Analysis | Data <br> Analysis | Data <br> Analysis |
|  | Fractions | Fractions | Fractions | Fractions |
|  |  | Decimals | Decimals | Decimals |
|  | Spiral Approach in Math Curriculum Concepts taught are built on concepts taught in previous years |  | Percentage | Percentage |
|  |  |  | Ratio | Ratio |
|  |  |  |  | Speed |


| Topics | P 3 | P 4 |
| :---: | :---: | :---: |
| Whole Numbers | - Numbers up to 10000 <br> - Addition \& Subtraction <br> - Multiplication \& Division | - Numbers up to $\mathbf{1 0 0} 000$ <br> - Multiplication \& Division <br> - Rounding And Estimation ( $\approx$ ) <br> - Factors and Multiples |
| Fractions | - Equivalent fractions <br> - Addition \& Subtraction | - Mixed numbers \& improper fractions <br> - Addition \& Subtraction <br> - Fraction of a set of objects |
| Money / Decimals | - Addition \& Subtraction | - Decimals up to 3 decimal places <br> - Addition and Subtraction <br> - Multiplication and Division |
| Measurement | - Length, Mass and Volume <br> - Time | - Time (24-hour Clock) |
| Geometry | - Angles (rt $\angle$, more or less than) <br> - Parallel and Perpendicular Lines <br> - Area and Perimeter - Squares and Rectangles | - Measurement and Drawing of Angles <br> - Turns and 8-point Compass <br> - Symmetry <br> - Area and Perimeter |

Data • Bar Graphs - Tables

Representation

- Line Graphs and Interpretation

Words in bold ~ new topics in P4

## Books and Materials Used

* My Pals Are Here! Pupil's Book 4A and 4B
* My Pals Are Here! Workbook 4A and 4B
* My Pals Are Here! Topical Tests
* P4 Heuristics Worksheets
* Math File (red folder)
* Math Bank Book


## Whole School Heuristics Approach

No.
1 Model Drawing: Part and Whole
2 Model Drawing: Comparison
Model Drawing: Multiplication
3 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

P1 P2 P3 P4 P5 P6
$\checkmark \quad V \quad V \quad V$


V V V

|  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\checkmark$ | $\checkmark$ | V | V |
| $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| V |  |  | $\checkmark$ |  | $\checkmark$ |
|  |  |  |  | $\checkmark$ |  |
|  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
|  |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
|  |  |  | V | V | V |

## Types of Assessments

| When are pupils assessed? | Non-weighted Assessments | Weighted Assessments |
| :---: | :---: | :---: |
| Term 1 to Term 4 | - Class activities <br> - Math Practices e.g. Workbook <br> Test Book <br> Worksheets <br> Heuristics worksheets <br> - Questioning and Feedback <br> - Practice Paper 1 (Term 1) | - Mid-Year Exam (Term 2) <br> - Weighted Assessment (Term 3) <br> - End-of-Year Exam (Term 4) <br> * Dates and topics to be tested will be provided in the HA letters. |

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Format for Weighted Assessments


## Common codes used during marking of Maths questions/word problems

## Codes Representations

| CC | Careless calculation (method is correct) |
| :--- | :--- |
| ME | Missing Equation |
| TE | Transfer Error (within solution) |
| MR | Misread (From question to solution) |
|  |  |
| MU | Missing standard unit |

## Some examples of how marking codes are used



## Pupils are expected to:

1. Set own goals - know what they want to achieve
2. Be attentive in class
3. Complete and hand in work on time
4. Present solutions in an organised way, showing important steps or workings and standard units
5. Take note of their mistakes in their work and do corrections

6. Seek help from teacher to clarify any doubts

## Supporting your child in their learning

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

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

Probe Understanding

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

you say so? answer.

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



## Supporting your child in their learning

- Relate Math concepts to daily life examples e.g. - Use of 24-hour clock to tell time
- Show your child tables or line graphs from
 newspapers, magazines etc
- Highlight decimals in price tags, digital weighing scales, labels in food items etc
- Develop a sense of different units of measurements

SAVE $\$ 1.20$ 19\%
\$4.95 such as 1 centimetre vs 1 metre vs 1 kilometre

- Ensure your child knows the multiplication tables well especially 6, 7 and 8 timetables.
- $\quad$ Provide a positive and conducive environment \& help her plan a scheduled time for homework and revision

Encourage and praise your child's effort

## Supporting your child in their learning

- Reinforce what the teacher has taught:
a) Remind your child to annotate the word problems using 'CUBE'.
b) Remind your child to show proper and detailed working steps.
c) Train your child to check their work using 'STAR'.




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