

Curriculum Briefing

P1 Mathematics



Vision

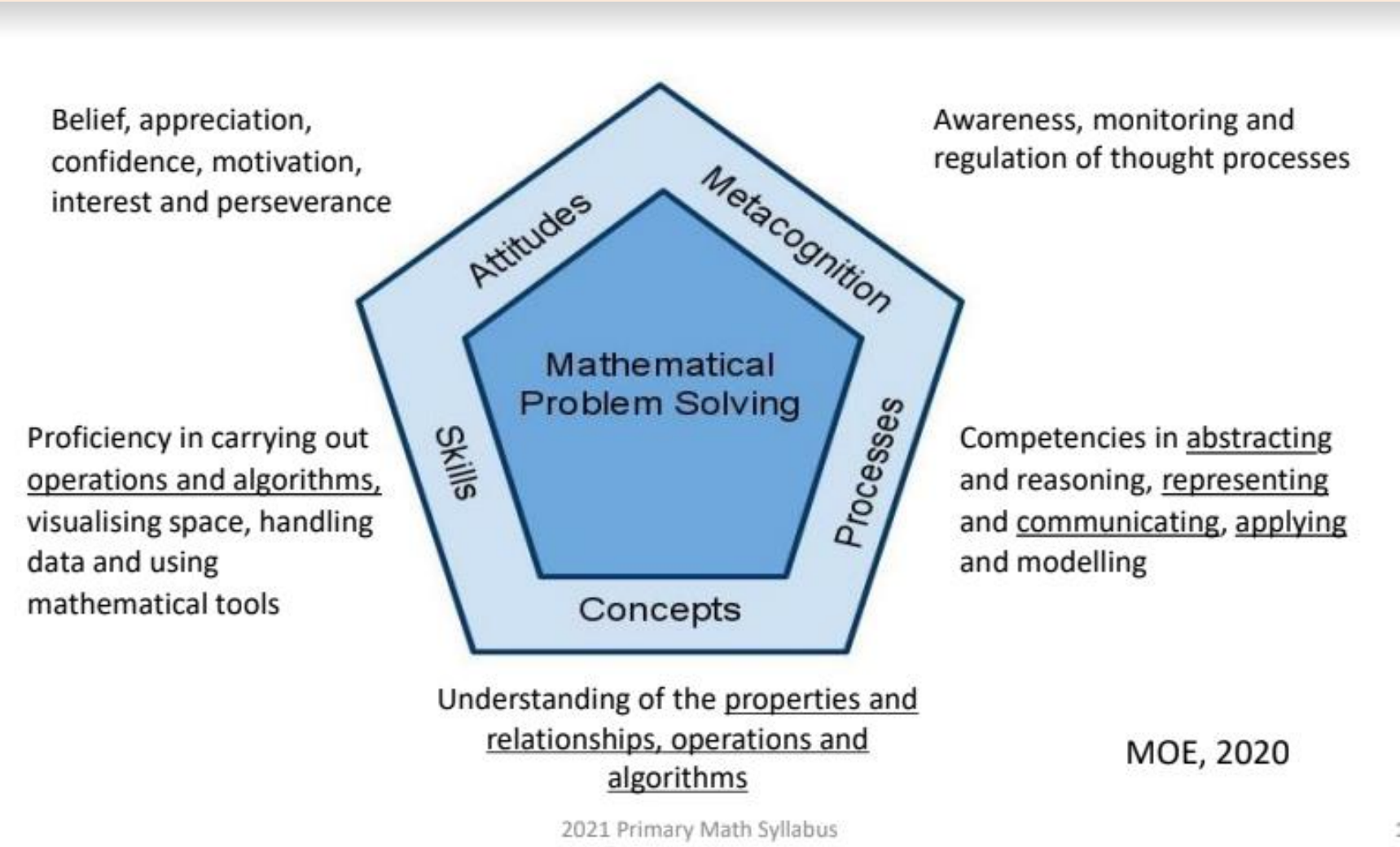
A community of confident and motivated pupils who are both **effective problem-solvers** and **team-players**.

Mission

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



MOE Mathematics Curriculum Framework



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

Rate

Primary 6

Whole Numbers

Measurement

Geometry

Data Analysis

Fractions

Decimals

Percentage

Ratio

Algebra



Spiral Approach Math Curriculum

P1 Math Syllabus

(revised 2021 Mathematics Syllabus)



Numbers	Measurement and Geometry	Statistics
Numbers up to 100	Length	Picture Graphs
Addition and Subtraction	Time	
Multiplication and Division	2D shapes	
Money		



1. Numbers

1.1 Numbers up to 100

- Compare and order number
- Number patterns

1.2 Addition and Subtraction

1.3 Multiplication and Division

1.4 Money

- Counting coins and notes
- Comparing amounts of money
- Add/ Subtract Money

Complete the number patterns.

(a) 7 8 11

(b) 14 13 11



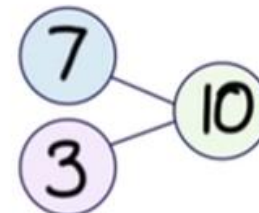
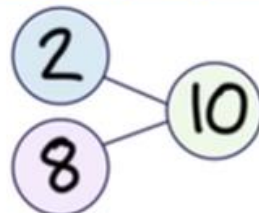
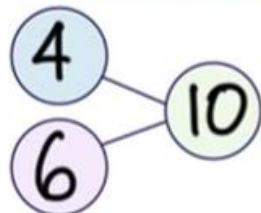
How to help your child?

- ✓ Use concrete materials for counting
- ✓ Count forward and backward



- ✓ Be familiar with number bonds of 10

Let's make number bonds of 10.



How to help your child?

- ✓ Equal Sharing vs Equal Grouping
Eg. 2 equal groups is different from groups of 2
- ✓ Use mathematical language
E.g. more than, fewer than, as many as,
1 more than 2 is 3
3 and 4 make 7
2 groups of 5 is 10



How to help your child?



- ✓ Show and teach them to recognise notes and coins of different denominations
- ✓ Count coins up to \$1 or notes up to \$100



- ✓ Ask your child:
 - How much is this item?
 - Is this note enough to buy this item?

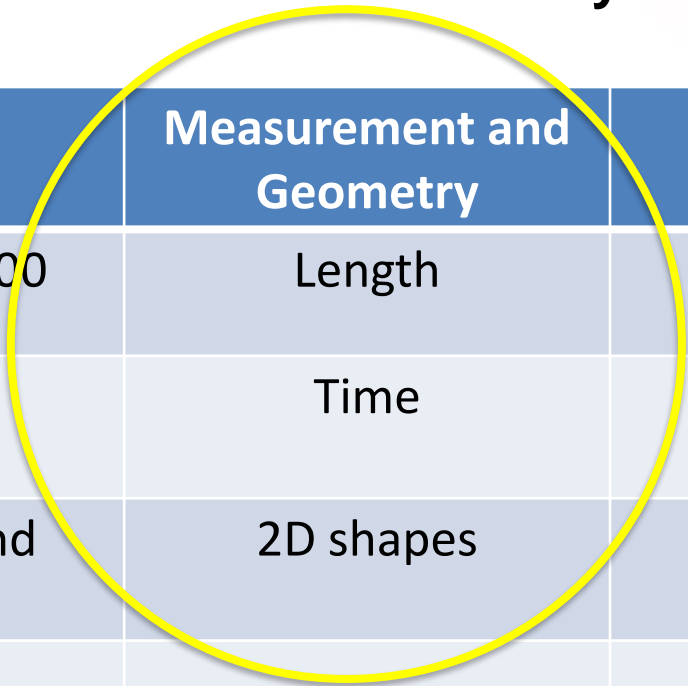


P1 Math Syllabus

(revised 2021 Mathematics Syllabus)



Numbers	Measurement and Geometry	Statistics
Numbers up to 100	Length	Picture Graphs
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Multiplication and Division	2D shapes	
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2. Measurement

Length

- measure length in cm
- compare and order length
- measure and draw a line in cm

Time

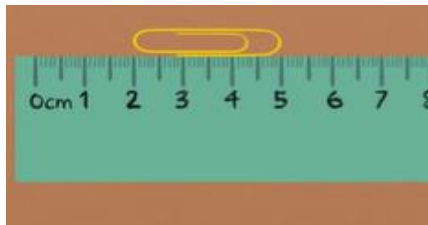
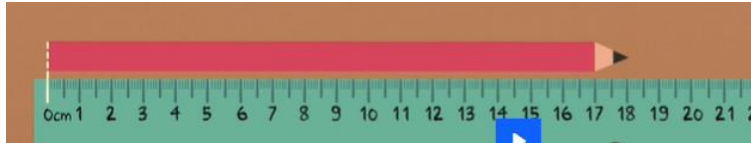
- tell time to 5 min
- use of 'a.m.' and 'p.m.'



How to help your child?



- ✓ Reinforcing the use of a ruler



- ✓ Tell time and relate words such as 'morning', 'afternoon', 'night' to 'a.m.' and 'p.m.' and give examples such as " I took a nap at 4.30 **p.m** just now."



- ✓ Learn multiplication tables of 5

Geometry

3.1 Basic shapes

- identifying and classifying shapes

Q1

The shapes are grouped by ____ .



- Copy figures on dot grid or square grid



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4. Statistics

4.1 Picture Graphs

- Make and read data from picture graphs



How to help your child?

- ✓ Get your child to recognise shapes around her.

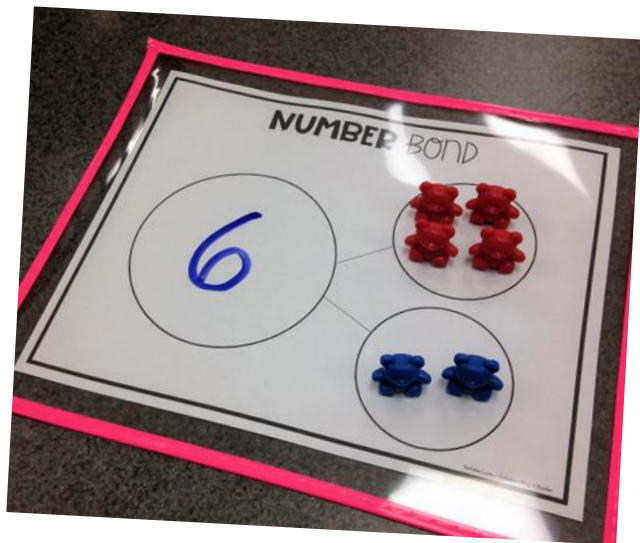


- ✓ Encourage your child to outline the shape with her finger and talk about the shape of the object
- ✓ Collect data and create picture graphs relating to your child.
E.g number of books read over 4 months.

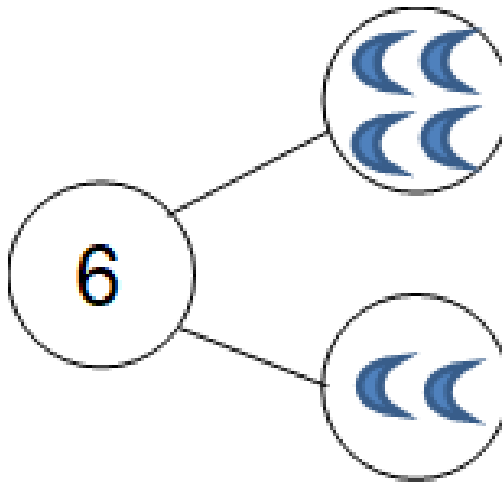


C-P-A Approach

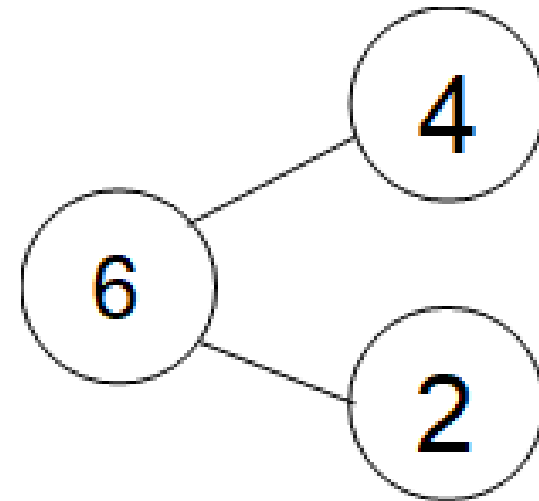
CONCRETE



PICTORIAL



ABSTRACT



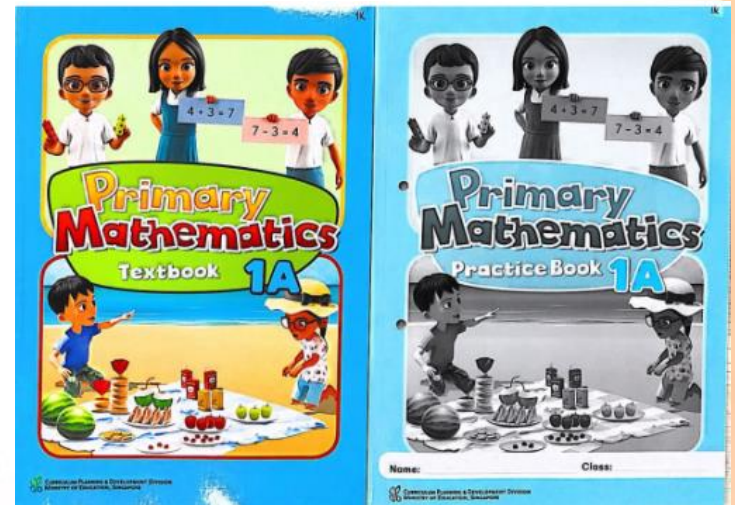
<https://collaboratinginkinder.com/2017/03/26/number-bonds-for-number-sense/>

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				✓	✓	✓

Books and Materials Used

- Pri. Mathematics Textbook 1A and 1B
- Pri. Mathematics Practice Book 1A and 1B
- P1 Test Book
- Topical Worksheets
- P1 Heuristics Worksheets
- Math File (Red)



Learning Outcomes

1. Understand numbers up to hundred.
2. Understand addition and subtraction
3. Identify, name, describe and sort shapes and objects
4. Measure and compare lengths of objects
5. Add and subtract numbers
6. Understand multiplication and division.
7. Tell time to 5 minutes
8. Read and interpret picture graphs



Non-weighted Assessments

- Hands-on activities



- Math Practices
e.g. workbook exercises, heuristics worksheets
- Informal Assessments:
Practice Papers, Review exercises in Workbook,

P1 Test Book



Performance Tasks



Naig Girls' School

P1 Mathematics
Numbers to 20 – Performance Task 1
How many are there?

Name _____ () Date: 13 May 2019

Class: P1 _____

Count the number of things.
Write the number and the number word in the spaces provided.

Objects	Number	Number word
Ice cream sticks	<u>18</u> ✓	<u>eighteen</u> ✓
Link Cubes	<u>14</u> ✓ (15)	<u>fourteen</u> ✓ (fifteen)
Counters	<u>20</u> ✓	<u>twenty</u> ✓
Pencils	<u>11</u> ✓	<u>eleven</u> ✓
Books	<u>13</u> ✓	<u>thirteen</u> ✓ (thirteen)

13/5 ✓

Marking Annotations

- Teachers will use these annotations when marking the pupils' work.

1) CC – careless calculation

- (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 $\frac{19}{(20) c}$ hairclips.

Lesson 4 Solving Word Problems: Addition



2) ME – missing equation

- (5) Jane collects 7 erasers.
Raju collects 9 more erasers than Jane.
How many erasers does Raju collect?

() ME

Raju collects 16 erasers.



Supporting your child in their learning journey



How can parents be involved...

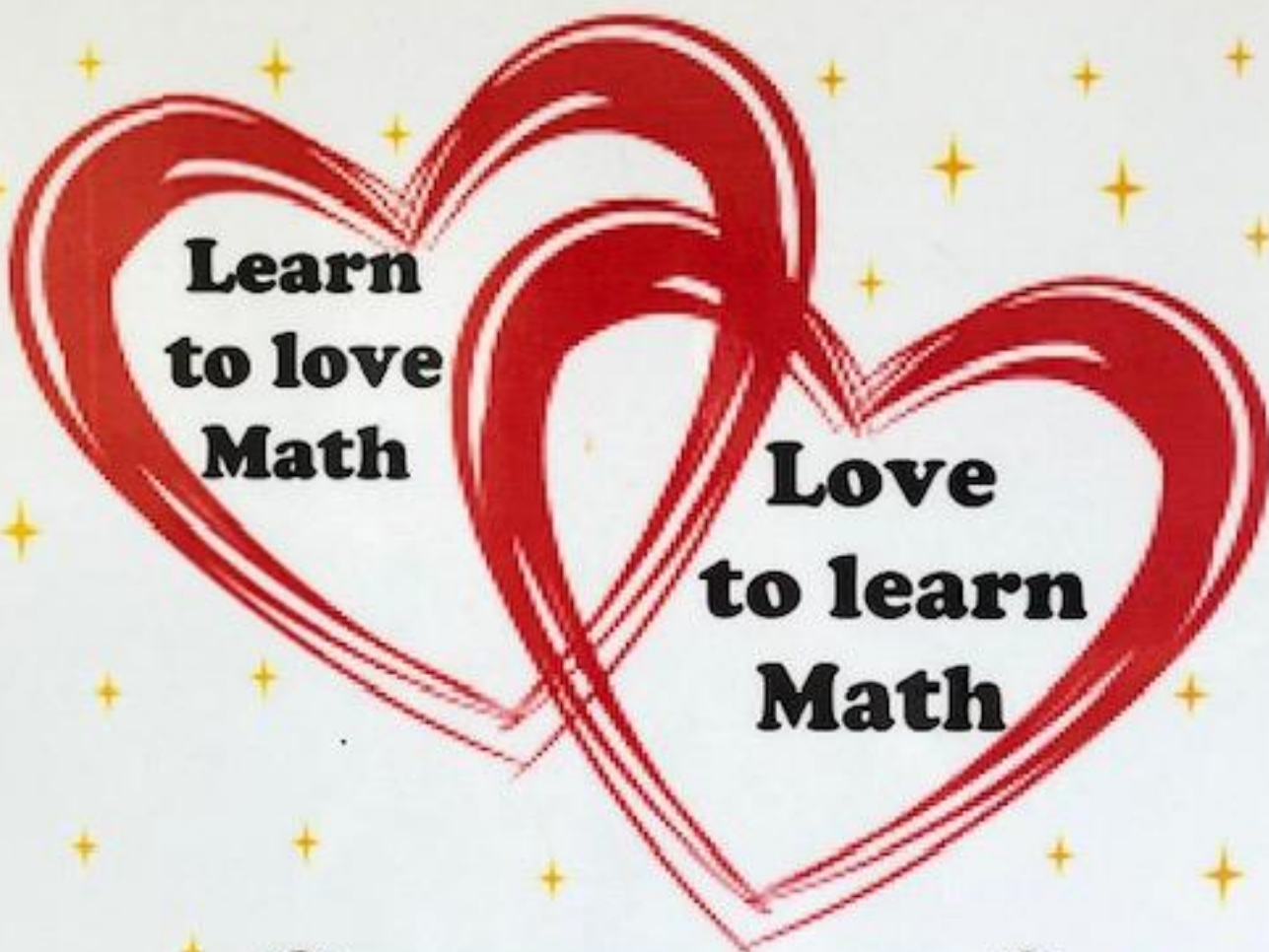
- Work and **communicate with** your child's **Math Teacher**
- **Monitor/Follow-up on homework**
When your child encounters difficulties with homework, ask questions that guide instead of telling them the answers
- **Teach/Reinforce skills such as:**
 - flipping the papers
 - checking their work when completed
 - writing neatly
- Provide a positive environment – **encourage** and **praise** your child's effort



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**Learn
to love
Math**

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