

# Mathematics

By

## *Mrs Sharon Ow (Level Head)*

# **YHPS Mathematics Department Mission**

To develop  
resilient and  
collaborative  
problem solvers



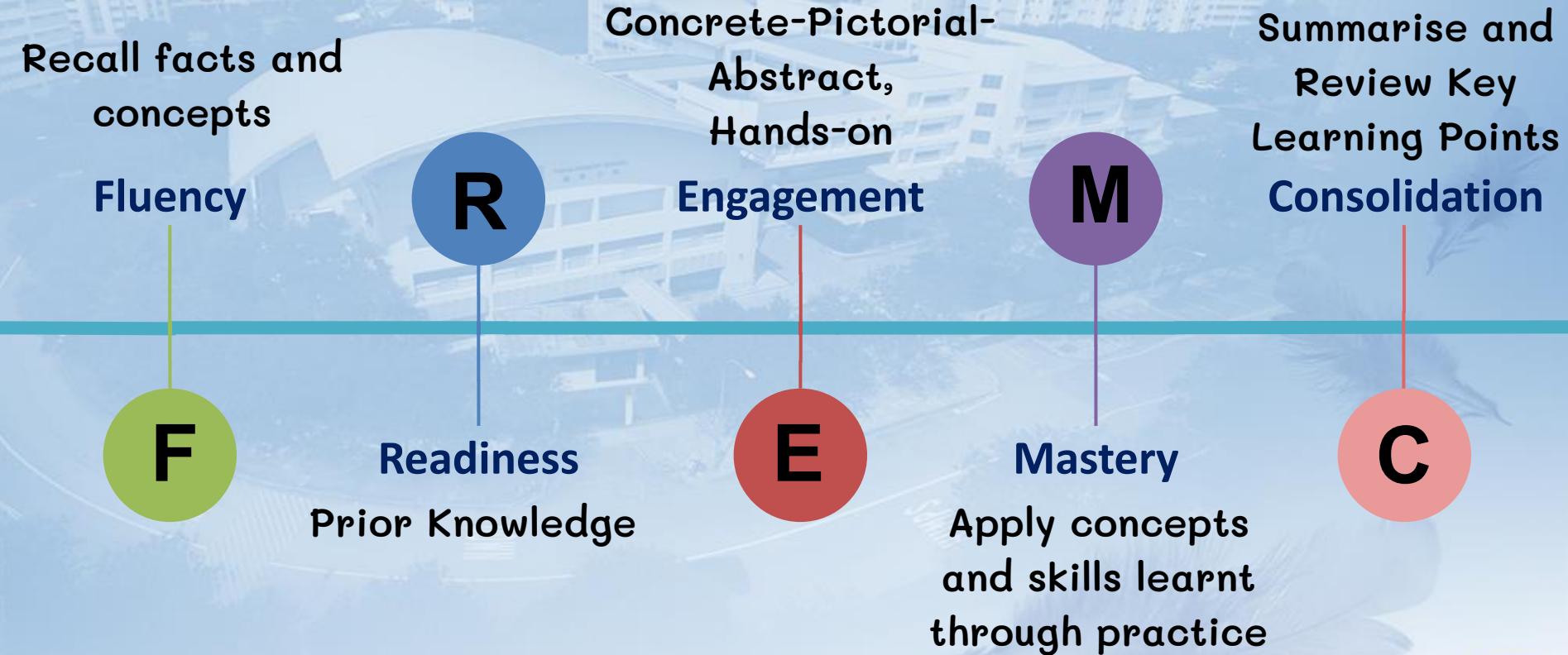
# **YHPS Mathematics Department Mission**

**P1 & P2**  
**Foster Interest**  
**Engaged Problem  
Solver**

**P3 & P4**  
**Build Confidence**  
**Competent  
Problem Solver**

**P5 & P6**  
**Instil Passion**  
**Effective Problem  
Solver**

# Flow of a P1 Maths lesson



# Fluency – WeCAN Practices (Daily)

(We Can Achieve in Numeracy)

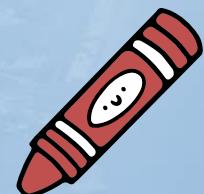
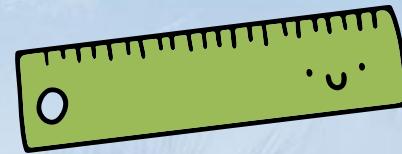
Daily practices to recall previously learnt concepts

## Students need

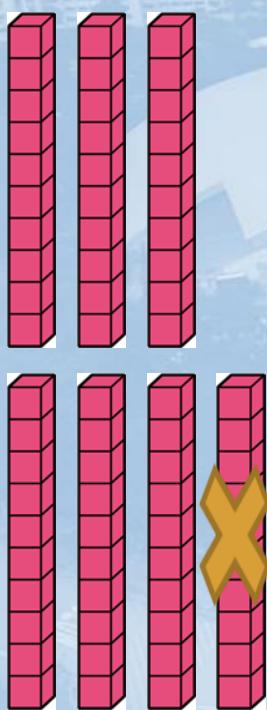
- 1) Mini-whiteboards
- 2) Markers (preferably 2)



$$9 \text{ } 4 \div 2$$



# Role-play: WeCAN Question 1



$$75 - 14 = \underline{\hspace{2cm}} \quad \underline{\hspace{2cm}} \quad 61$$

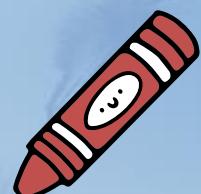
Tens	Ones
7	5
-	4
6	1

A subtraction diagram showing the calculation of 75 minus 14. The tens column shows 7 minus 1 equals 6. The ones column shows 5 minus 4, with one pink cube removed from the row of five, leaving one pink cube and three orange cubes. The result is 61.

# Engagement

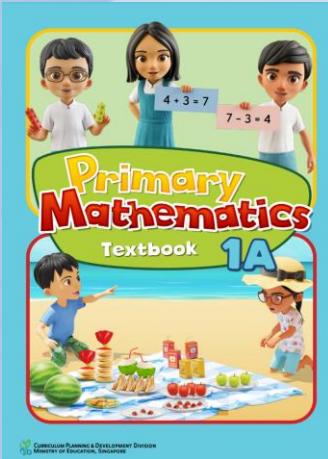
## **CPA Approach** **(Concrete-Pictorial-Abstract)**

Anchoring learning of Mathematics  
in hands-on before moving to  
pictorial and abstract  
understanding

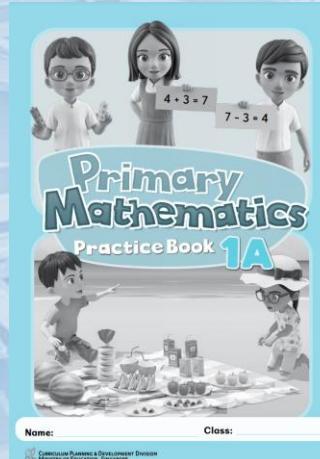

$$9 \text{ } 4 \div 2$$



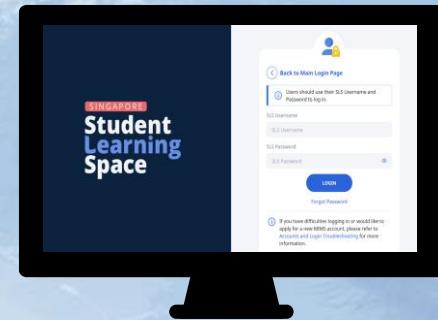
# Resources used for maths



Textbook



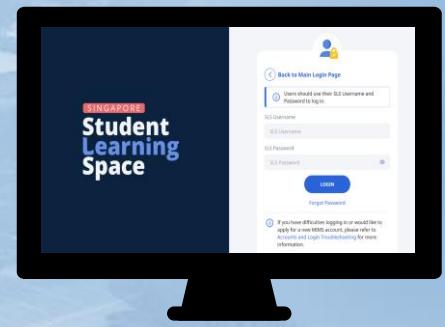
Practice  
Book



Student  
Learning  
Space (SLS)

# 1

# Numbers to 10



Link to SLS activities that reinforce and support the learning of the topic

# How to access SLS?

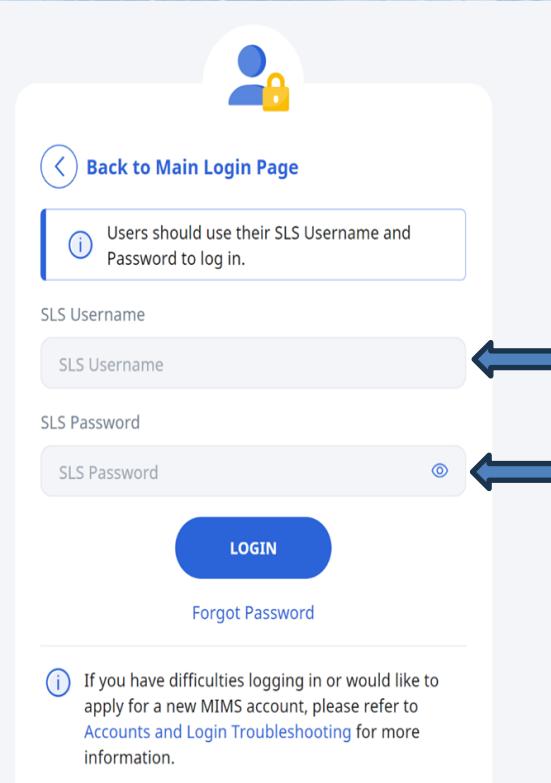


Using the computer:  
Type in the address in your  
**Google Chrome browser**

Using mobile devices:  
Scan the QR code

# How to access SLS?

SINGAPORE  
**Student  
Learning  
Space**



Username will  
be provided by  
form teachers  
Password  
to be set by  
parents

# Activities on SLS

## 1 Number Bonds for Numbers up to 10

Do you remember how to read and write numbers up to 10? Watch this video to refresh your memory.



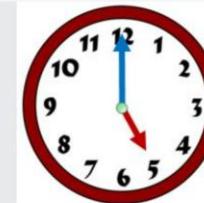
Video\_Counting\_numbers\_up\_to\_10.mp4



Interactive\_Magic\_Time\_mobile\_compatible.zip

Q1

The time is  o'clock.



Q HINT



▼

MARKS [1]

SAVE AS DRAFT

SUBMIT

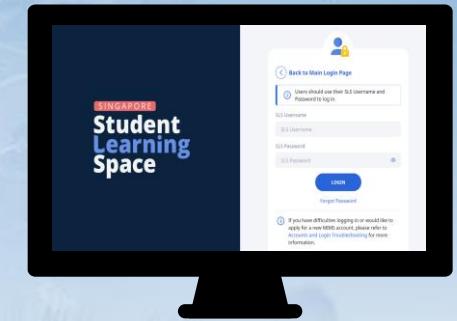
# How do you use the resources on SLS?

## 1. Pre-learning

Develop an interest and curiosity about the topic before the teacher introduces in class

## 2. Post-learning

Child uses resources on SLS to consolidate his/her learning or as a form of revision



# Mini Quizzes

## 1. Administered after a few topics

Unweighted quiz to assess your child's learning  
Monitor and close learning gaps for the topics

## 2. Feedback

Use the rubrics to see your child's strengths  
and areas to work on



## Yuhua Primary School

### Primary 1 Mini Quiz 2

Topic: Numbers to 10, Addition and Subtraction

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: \_\_\_\_\_

I can...



	Emerging	Approaching Expectations	Meeting Expectations	Exceeding Expectations
Add numbers within 10				
Subtract numbers within 10				
Write an addition equation.				
Write a subtraction equation.				
Order numbers within 10.				
State number bonds for numbers up to 10.				

Parent's Signature: \_\_\_\_\_



I can...

### Rubric: 4 levels



	Emerging	Approaching Expectations	Meeting Expectations	Exceeding Expectations
Add numbers within 10				
Subtract numbers within 10				
Write an addition equation.				
Write a subtraction equation.				
Order numbers within 10.				
State number bonds for numbers up to 10.				

Item  
Objectives

★ ★ ★	—	★ ★ ★		
<b>Yuhua Primary School</b>				
Primary 1 Mini Quiz 2				
Topic: Numbers to 10, Addition and Subtraction				
Name: _____	Date: _____			
Class: _____				
I can...				
Add numbers within 10	Emerging	Approaching Expectations	Meeting Expectations	Exceeding Expectations
Subtract numbers within 10			✓	
Write an addition equation.				✓
Write a subtraction equation.			✓	
Order numbers within 10.				✓
State number bonds for numbers up to 10.				✓
Parent's Signature: _____				
★ ★ ★	—	★ ★ ★		

I can...



	Emerging	Approaching Expectations	Meeting Expectations	Exceeding Expectations
A Add numbers within 10				✓
B Subtract numbers within 10		✓		
C Write an addition equation.				✓
D Write a subtraction equation.		✓		
E Order numbers within 10.			✓	
F State number bonds for numbers up to 10.				✓

Which learning objectives should this student continue to work on?



Multiple Choice

★ ★ ★	—	★ ★ ★		
<b>Yuhua Primary School</b>				
Primary 1 Mini Quiz 2				
Topic: Numbers to 10, Addition and Subtraction				
Name: _____	Date: _____			
Class: _____				
I can...				
	Emerging	Approaching Expectations	Meeting Expectations	Exceeding Expectations
Add numbers within 10				✓
Subtract numbers within 10			✓	
Write an addition equation.				✓
Write a subtraction equation.			✓	
Order numbers within 10.				✓
State number bonds for numbers up to 10.				✓
Parent's Signature: _____				
★ ★ ★	—	★ ★ ★		

I can...

## Rubric: 4 levels



	Emerging	Approaching Expectations	Meeting Expectations	Exceeding Expectations
Add numbers within 10				✓
Subtract numbers within 10		✓		
Write an addition equation.				✓
Write a subtraction equation.		✓		
Order numbers within 10.			✓	
State number bonds for numbers up to 10.				✓

Need to work   Doing well for  
on subtraction   addition,  
order numbers and  
number bonds  
within 10

# How would you describe your own attitude toward maths?



**A**  
Very negative, I dislike maths and find it difficult.

**B**  
Somewhat negative, I find maths challenging or stressful.

**C**  
Neutral, I don't have strong feelings about maths.

**D**  
Somewhat positive, I don't mind maths but don't particularly enjoy it.

**E**  
Very positive, I enjoy maths and see it as useful.



Multiple Choice



**Parents who fear mathematics may  
unknowingly pass it on to their children  
(Geist, 2010)**

# Growth Mindset

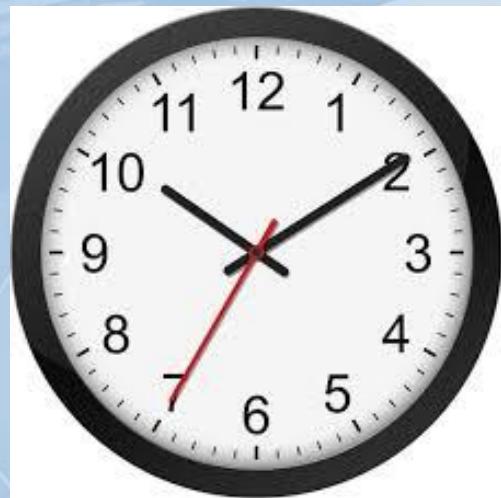
- Emphasize effort, persistence and learning from mistakes
- Help children develop resilience and a positive approach to challenges in maths

Solving difficult questions can help my brain muscles grow!



# Supporting your child in the learning of Maths...

Relate Mathematics to Daily Life



Talk about time



Point out numbers in everyday life



Preparing...	Ready!
103	99
104	100
106	
107	101
108	102
110	
98	95
96	97

# Supporting your child in the learning of Maths...

Relate Mathematics to Daily Life

Tap opportunities from the surrounding situations which make maths learning authentic.



Shopping at the supermarket

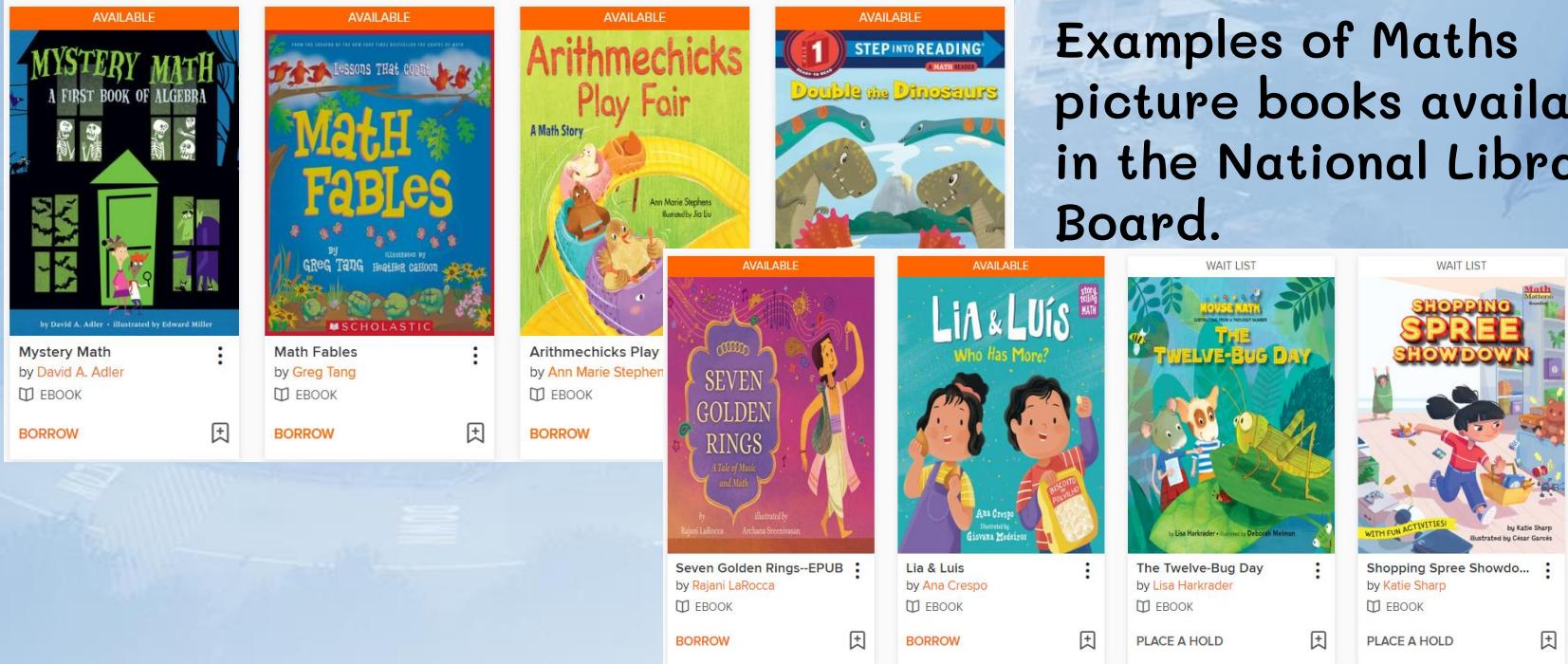


Cooking with children



# Supporting your child in the learning of Maths...

Read Maths Picture Books



Examples of Maths picture books available in the National Library Board.

# Summary

## How We Teach Maths in school

- Structured lessons using F → R → E → M → C  
*(Fluency, Readiness, Engagement, Mastery, Consolidation)*
- Strong emphasis on **hands-on learning** (**CPA: Concrete → Pictorial → Abstract**)
- **Daily practice** through WeCaN, textbooks and practice books
- **SLS activities** to reinforce and review learning
- **Mini Quizzes** to track strengths and areas of growth

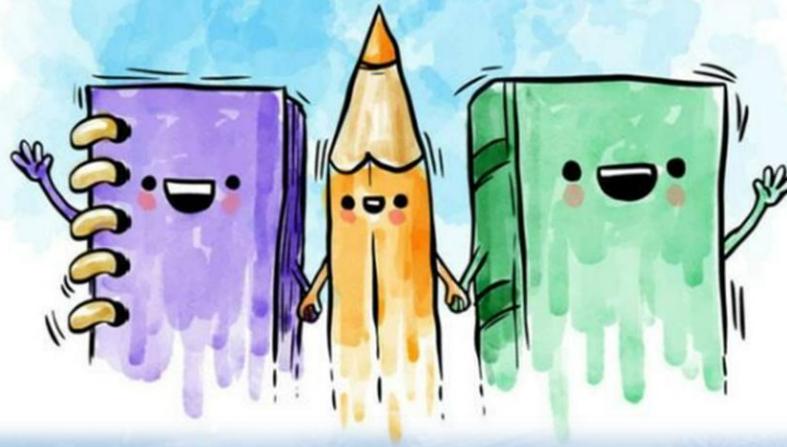
## Your Supportive Role at Home

- Encourage a **positive attitude** and celebrate effort
- Integrate Maths into **daily routines** (time, money, counting, patterns)
- Use simple **growth mindset** language (“You’re learning!”, “Mistakes help your brain grow!”)

Together, we build confident and joyful young Maths learners!



MATHEMATICS MAY NOT TEACH US HOW TO  
ADD LOVE OR SUBTRACT HATE  
BUT IT GIVES US EVERY REASON TO HOPE THAT  
EVERY PROBLEM HAS A SOLUTION.



# Thank You