

Mathematics

By

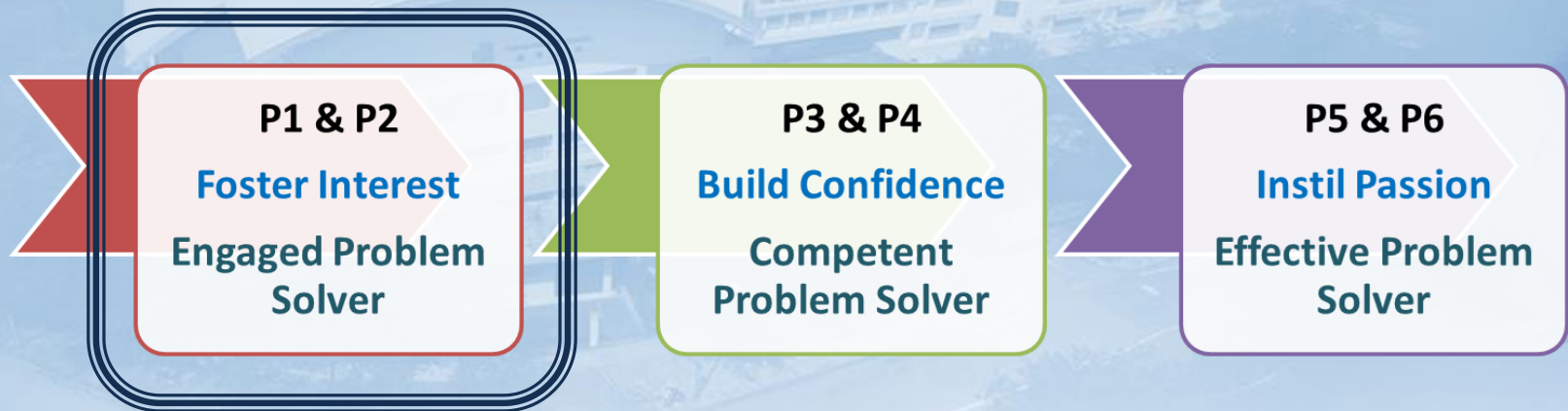
Mrs Sharon Ow (Level Head)

YHPS Mathematics Department Mission

To develop
resilient and
collaborative
problem solvers



YHPS Mathematics Department Mission



Flow of a P1 Maths lesson

Recall facts and
concepts

Fluency



Readiness

Prior Knowledge

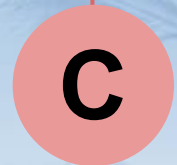
Concrete-Pictorial-
Abstract,
Hands-on
Engagement



Mastery

Apply concepts
and skills learnt
through practice

Summarise and
Review Key
Learning Points
Consolidation



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)

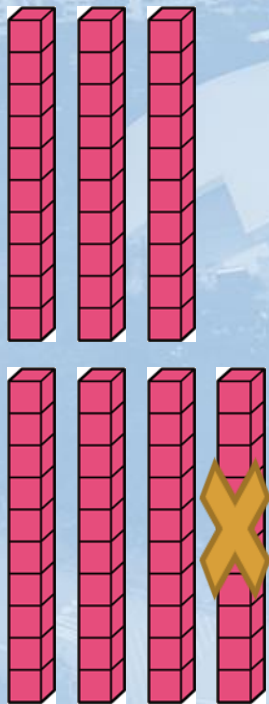


$$94 \div 2$$



Role-play: WeCAN Question 1

$$75 - 14 = \underline{61}$$



	Tens	Ones
	7	5
(-)	1	4
	6	1



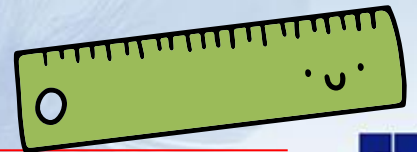
Engagement

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

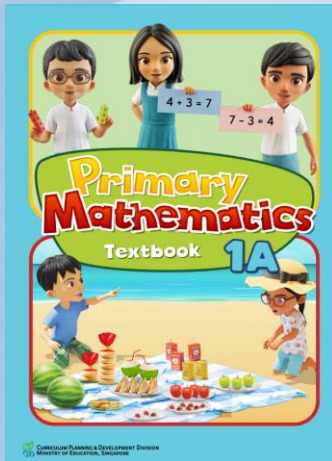
Anchoring learning of Mathematics
in hands-on before moving to
pictorial and abstract
understanding



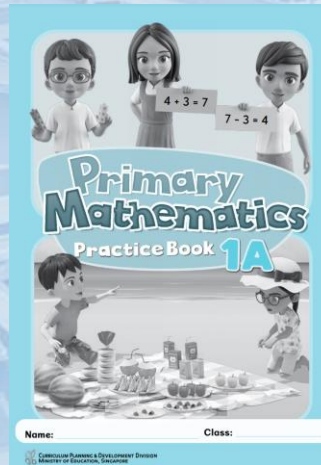
$$94 \div 2$$



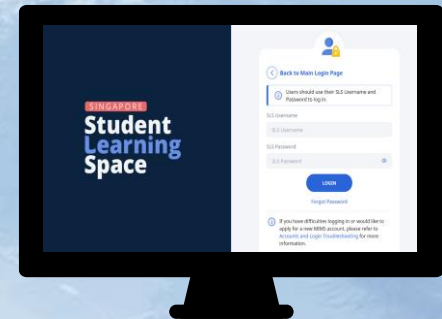
Resources used for maths



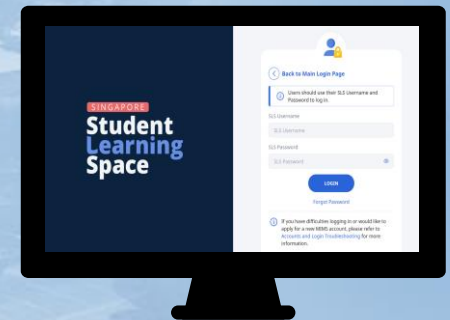
Textbook



Practice Book



Student Learning Space (SLS)



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

How to access SLS?

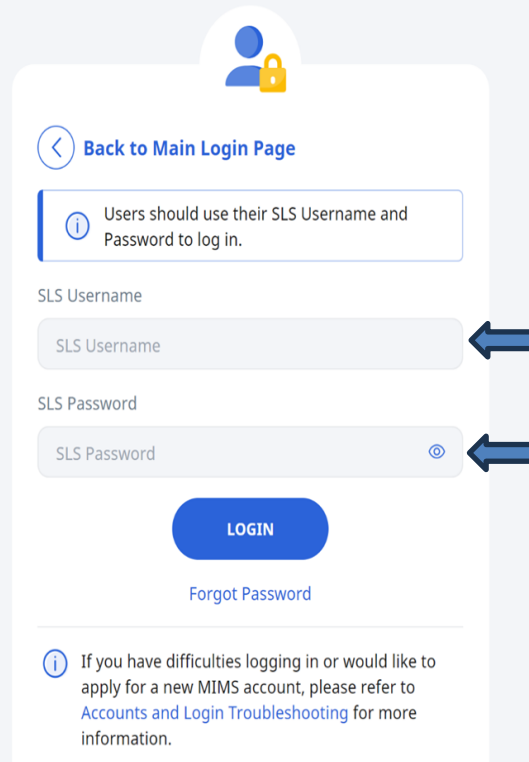


Using the computer:
Type in the address in your
Google Chrome browser

Using mobile devices:
Scan the QR code

How to access SLS?

SINGAPORE
**Student
Learning
Space**



The screenshot shows the SLS login interface. At the top, there is a user icon with a lock. Below it is a link to 'Back to Main Login Page'. A message box states: 'Users should use their SLS Username and Password to log in.' The login form has two fields: 'SLS Username' and 'SLS Password'. The 'SLS Password' field has an eye icon to toggle visibility. Below the fields is a blue 'LOGIN' button and a 'Forgot Password' link. At the bottom, a message box says: 'If you have difficulties logging in or would like to apply for a new MIMS account, please refer to [Accounts and Login Troubleshooting](#) for more information.'

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 Q ↺



HINT



MARKS [1]

SAVE AS DRAFT

SUBMIT

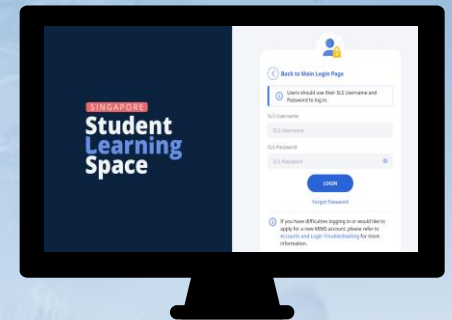
How do you use the resources on SLS?

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

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...



A
B
C
D
E
F

	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.				✓

Which learning objectives should this student continue to work on?



Multiple Choice

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.				✓

Need to work on subtraction

Doing well for addition, ordering 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

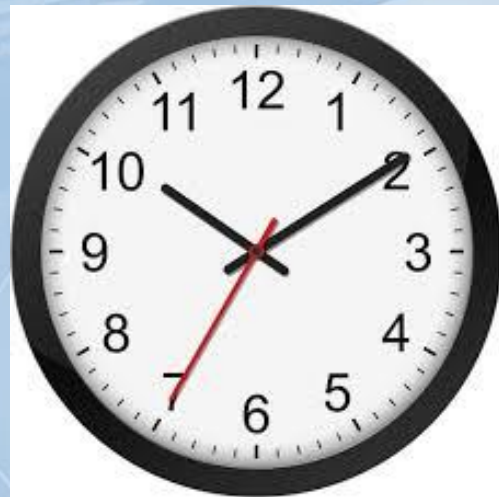
Solving difficult questions can help my brain muscles grow!



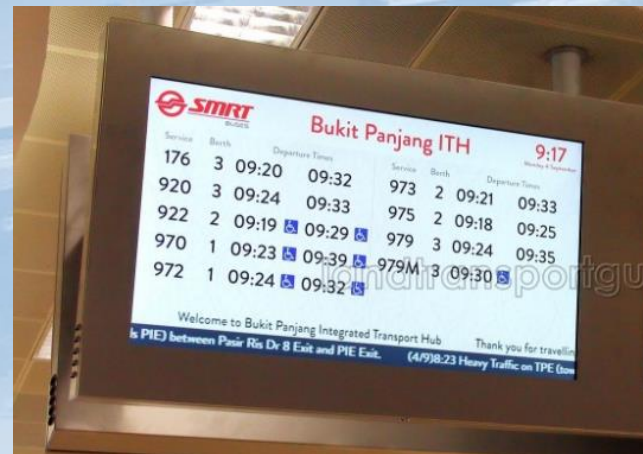
Supporting your child in the learning of Maths...

Relate Mathematics to Daily Life

Point out numbers in everyday life



Talk about time



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

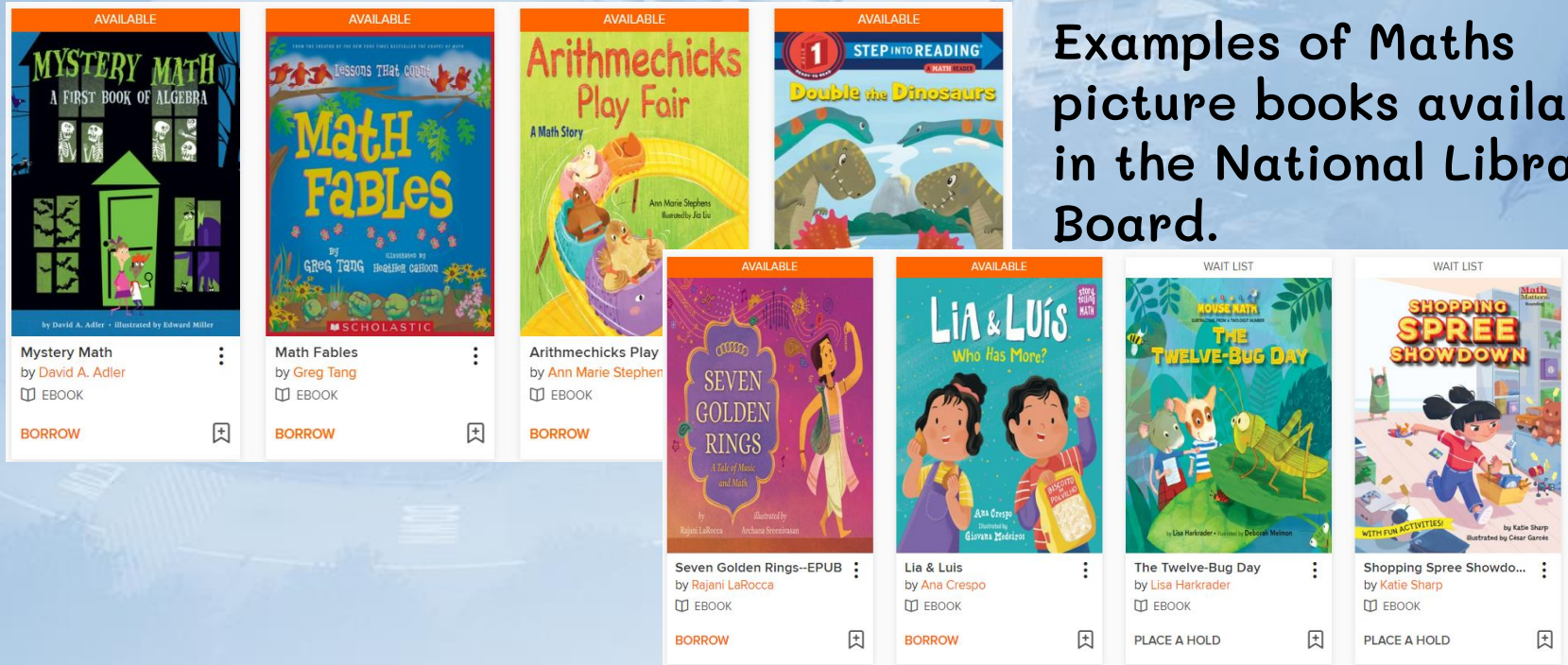


Cooking with children

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 $F \rightarrow R \rightarrow E \rightarrow M \rightarrow C$
(*Fluency, Readiness, Engagement, Mastery, Consolidation*)
- Strong emphasis on **hands-on learning** (CPA: **Concrete** \rightarrow **Pictorial** \rightarrow **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