

CHIJKELLOCK



Primary 2 Mathematics



BRIEFING OUTLINE

- 1. School-Based Mathematics Curriculum**
- 2. Mathematics Assessment**



SCHOOL-BASED MATHEMATICS CURRICULUM

- PSP (Problem Solving Package)
- Math Alive
- Speed Challenge
- Supermarket Trail
- Remedial Programme



SCHOOL-BASED MATHEMATICS CURRICULUM

PSP (Problem Solving Package)

Understand

- **Aim:** To equip students with various thinking skills and heuristics to help them solve mathematical problems.

Plan

Execute

- **Approach:** The use of UPER framework to scaffold students' thinking process to problem solving.

Review



SCHOOL-BASED MATHEMATICS CURRICULUM

PSP (Problem-Solving Package)

- 1) There are a total of 6 cars and bicycles in the garage. The total number of wheels of the vehicles is 20. How many bicycles are there in the garage?



Understand the problem

Let us first understand the story sum!

Total no. of vehicles :	<u>6 vehicles</u>
Total no. of wheels :	<u>20 wheels</u>
No. of wheels 1 car has :	<u>4 wheels</u>
No. of wheels 1 bicycle has :	<u>2 wheels</u>
I need to find no. of bicycles :	?

Understand



SCHOOL-BASED MATHEMATICS CURRICULUM

PSP (Problem-Solving Package)

- 1) There are a total of 6 cars and bicycles in the garage. The total number of wheels of the vehicles is 20. How many bicycles are there in the garage?

P

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Which strategy do I use:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Draw it Out | <input type="checkbox"/> Look for a pattern |
| <input type="checkbox"/> Draw a Model | <input type="checkbox"/> Guess and check |
| <input type="checkbox"/> Look for a Pattern | <input type="checkbox"/> Work backwards |

Plan



SCHOOL-BASED MATHEMATICS CURRICULUM

PSP (Problem-Solving Package)

- 1) There are a total of 6 cars and bicycles in the garage. The total number of wheels of the vehicles is 20. How many bicycles are there in the garage?



Execute

Let's execute my plan and solve the question!



There are 2 bicycles in the garage.

Ans: 2 bicycles

Execute



SCHOOL-BASED MATHEMATICS CURRICULUM

PSP (Problem-Solving Package)



Review

My Claim

- Is my answer correct?

My Evidence

- Have I written the numbers correctly?
- How do I know that my answer make sense?

Bicycles → $2 \times 2 = 4$ (total no. of wheels for bicycle)

Cars → $4 \times 4 = 16$ (total no. of wheels for cars)

Total no. of wheels → $4 + 16 = 20$

There are 20 wheels altogether as stated in the question.

My Confirmation

- I have gotten the right answer after my review.



SCHOOL-BASED MATHEMATICS CURRICULUM

PSP (Problem-Solving Package)

PSP Strategies for P2

- Draw it Out
- Model Drawing
- Look for a Pattern
- Work Backwards
- Guess and Check



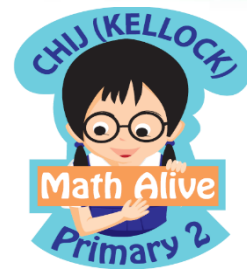
SCHOOL-BASED MATHEMATICS CURRICULUM

Math Alive

- **Aim:** To engage students in authentic tasks to explore mathematics concepts and ideas beyond the classroom.
- **Task:**
Each student is to complete 3 compulsory tasks.
Students who complete 12 stars will get a **Math Alive badge**.



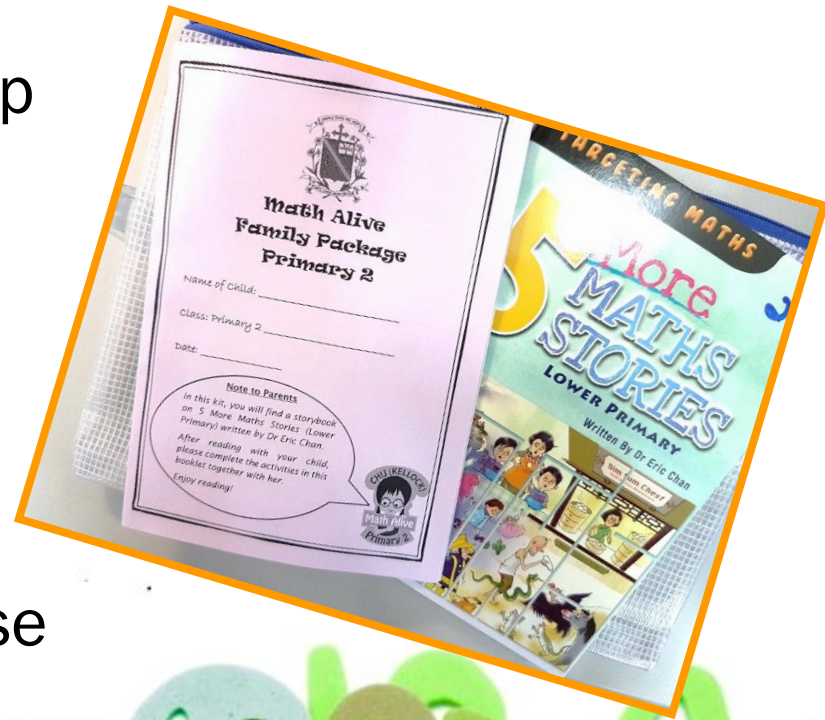
SCHOOL-BASED MATHEMATICS CURRICULUM



Math Alive Family Kit

What are the 3 compulsory tasks?

- Home-School Partnership
- Inculcate active Mathematics learning
- Discover that Math is applicable in every day activities and make sense of what they learn

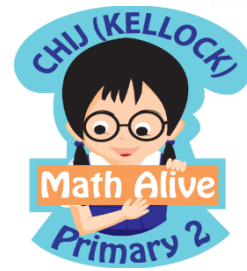


A Christ-centred learning community where every child will develop her unique giftedness to lead and make a difference.



SCHOOL-BASED MATHEMATICS CURRICULUM

Math Alive



What are the 3 compulsory tasks?

- **Task 2:**

Paste a receipt on a piece of A4 paper.

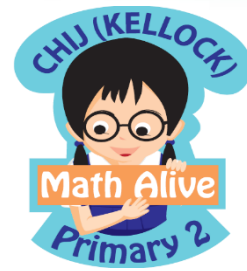
Highlight the receipt number.

Write down the largest and smallest 2-digit number using the digits given.



SCHOOL-BASED MATHEMATICS CURRICULUM

Math Alive



What are the 3 compulsory tasks?

■ Task 3:

Cut out advertisements from the newspaper or supermarket brochures showing different brands of similar items.

Paste the picture and price of the item onto a piece of paper.

Which brand would you choose? Why?



SCHOOL-BASED MATHEMATICS CURRICULUM

Speed Challenge

Objective:

To provide opportunity for students to ...

→ practise mental calculation

→ develop speed, accuracy and confidence in the recall of the basic facts

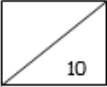
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SPEED CHALLENGE
(Term 2)


Name : _____ () Class : P 2 _____

1.	17	+	10	=	
2.	71	+	38	=	
3.	123	+	22	=	
4.	341	+	35	=	
5.	177	+	24	=	
6.	657	-	5	=	
7.	87	-	16	=	
8.	72	-	19	=	
9.	164	-	38	=	
10.	724	-	103	=	

Speed Challenge 13

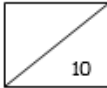
Date : _____

Your score : 



Speed Challenge 14

Date: _____

Your score : 

1.		is 10 more than 27
2.		is 10 more than 64
3.		is 10 more than 92
4.		is 10 more than 286
5.		is 10 more than 395
6.		is 10 less than 66
7.		is 10 less than 96
8.		is 10 less than 105
9.		is 10 less than 441
10.		is 10 less than 502

Supermarket Trail



Semester 2

- Topic: Money
- Real world experience
- Learning Journey (shopping trip) to supermarket



MATHEMATICS ASSESSMENT

- Topical Practices
- Math Practical
- Checkpoint Assessment
- Semestral Assessment (SA2)



ASSESSMENT FORMAT

CHECKPOINT	SA2 PAPER
<p><u>SECTION A</u> (Multiple-Choice Questions) 10 questions – 20 marks</p>	<p><u>SECTION A</u> (Multiple-Choice Questions) 10 questions – 20 marks</p>
<p><u>SECTION B</u> (Short-Answer Questions) 10 questions – 20 marks</p>	<p><u>SECTION B</u> (Short-Answer Questions) 12 questions – 18 marks</p>
<p><u>SECTION C</u> (Structured/Long-Answer Questions) 3 to 4 questions – 10 marks</p>	<p><u>SECTION C</u> (Structured/Long-Answer Questions) 4 questions – 12 marks</p>
<p>Total: 50 marks</p>	<p>Total: 50 marks</p>

Parents' Symposium

Games in Mathematics Learning

*A Christ-centred learning community where every child will develop
her unique giftedness to lead and make a difference.*



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Thank you!

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