

CHIJKELLOCK



PRIMARY 1 MATHEMATICS

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

BRIEFING OUTLINE

1. Teaching & Learning Approach

2. School-Based Curriculum & Programme

3. Mathematics Assessment

TEACHING AND LEARNING APPROACH

Learning Experience

- Designed to inculcate active learning
- Understand mathematical concepts
- Acquire skills for everyday use
- Foster a greater interest in Math
- The learning experiences include:
 - Hands-on Activities
 - Show and Say
 - Pair and Share
 - Play and Learn

Topics

- Whole Numbers

Numbers up to 100

Addition and Subtraction

Multiplication and Division

- Length
- Time

- Money

• 2D Shapes

• Picture Graphs

• Problem Solving

TEACHING AND LEARNING APPROACH



$$7 - 2 = 5$$

$$9 - 3 = 6$$

$$\begin{array}{r} 10 \\ 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} + \\ \hline 4 \end{array}$$

$$\begin{array}{r} 3 \\ 8 \\ \hline \end{array}$$

$$+ 5 = 20$$

$$6 = 10$$

SCHOOL-BASED CURRICULUM & PROGRAMME



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

SCHOOL-BASED CURRICULUM & PROGRAMME



Math Alive

- **Aim:** To engage students in authentic tasks to explore mathematics concepts and ideas beyond the classroom.

SCHOOL-BASED CURRICULUM & PROGRAMME



Math Alive

S/N	No. of Stars	Tasks	Date completed	Parent's Signature	Teacher's Signature
1	★	Take 5 pictures of the things around you that have numbers. Paste the pictures on a piece of paper.			

■ Task:

Each student is to complete 3 compulsory tasks.

Students who complete 10 stars will get a

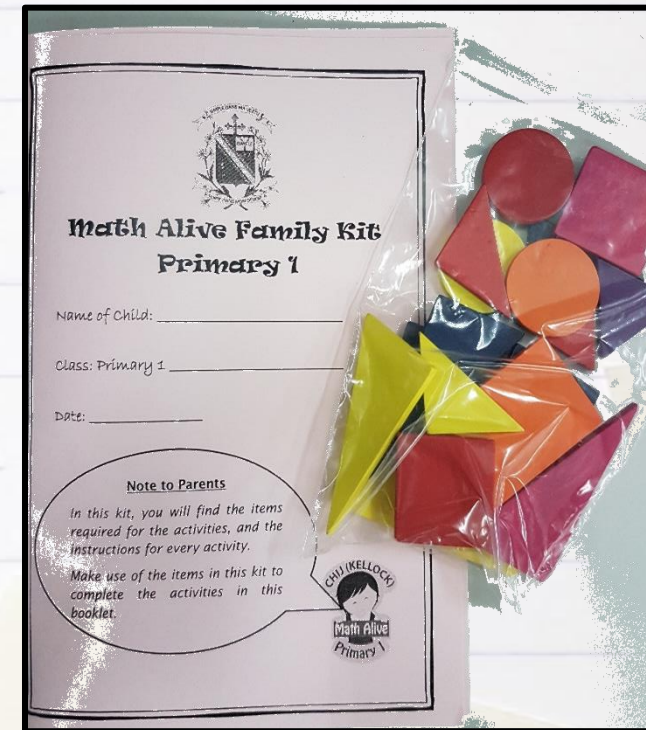
Math Alive badge.

SCHOOL-BASED CURRICULUM & PROGRAMME



Math Alive Family Kit

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



SCHOOL-BASED CURRICULUM

Speed Challenge

- Objective:

To provide opportunity for students to ...

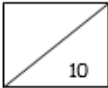
→ develop speed, accuracy and confidence in the recall of the basic facts


CHIJ KELLOCK
SPEED CHALLENGE
(Term 2)

Name : _____ () Class : P 2 _____

Speed Challenge 13

Date : _____

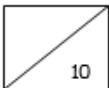
Your score :  10



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 14

Date : _____

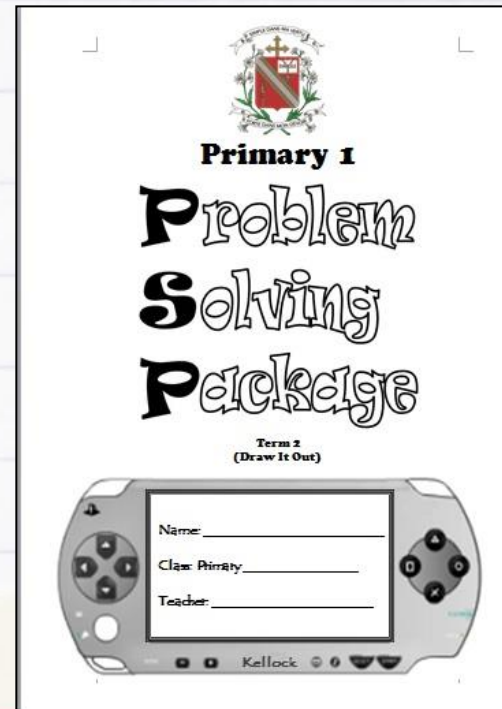
Your score :  10

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

SCHOOL-BASED CURRICULUM & PROGRAMME

Problem-Solving Package (PSP)

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



SCHOOL-BASED CURRICULUM & PROGRAMME

Problem-Solving Package (PSP)

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

Understand

Plan

Execute

Review

SCHOOL-BASED CURRICULUM & PROGRAMME

Problem-Solving Package (PSP)

P

lan

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/
Make a supposition |
| <input type="checkbox"/> Make a list | <input type="checkbox"/> Work backwards |

Plan

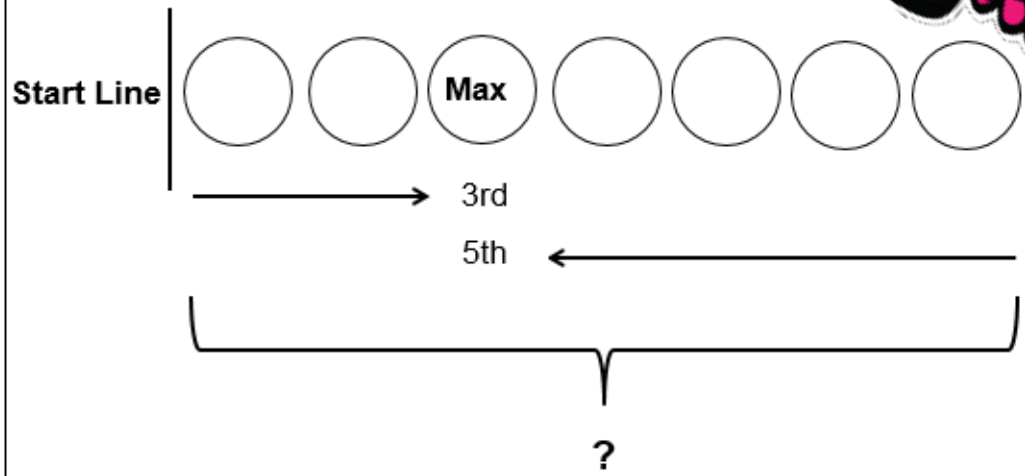
SCHOOL-BASED CURRICULUM & PROGRAMME

Problem-Solving Package (PSP)



Execute

Let's execute my plan and solve the question!



Execute

There are 7 children in the line.

Ans: 7 children

SCHOOL-BASED CURRICULUM & PROGRAMME

Problem-Solving Package (PSP)

R review

My Claim

- Is my answer correct?

My Evidence

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

I have checked that Max is 3rd from the front and 5th from the back.

My Confirmation

- I have gotten the right answer after my review.



R review

SCHOOL-BASED CURRICULUM & PROGRAMME

Problem-Solving Package (PSP)

PSP Strategies for P1

- Draw it Out
- Look for a Pattern
- Work Backwards

MATHEMATICS ASSESSMENT

- Topical Practices
- Math Practical
- Checkpoint Assessments

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.*



Mrs Geetha Swamynathan(HOD Mathematics)

geetha_swamynathan@moe.edu.sg

Ms Tracy Liu (LH Mathematics)

liu_huanjia_tracy@moe.edu.sg

Ms Nadzirah (LH Mathematics – Covering)

nadzirah_azhar@moe.edu.sg



$$7 \div 2 = 2$$

$$3 + 3 = 6$$

$$6 = 1/8$$

Thank you!

$$0 + 3 = 8$$

$$+ 4$$

$$+ 5 = 20$$

$$7 - 2 = 5$$

$$9 - 3$$

$$10 \\ 15 \\ 5 \overline{) 515}$$