

# CHIJKELLOCK



## Primary 4 Mathematics

# BRIEFING OUTLINE

**1. Topics**

**2. Mathematics Assessment**

**3. School-Based Mathematics  
Curriculum**



# TOPICS

- Whole Numbers
- Fractions
- Angles
- Area and Perimeter
- Time

## New Topics

- Decimals
- Symmetry
- Squares and Rectangles
- Tables and Line Graphs



# MATHEMATICS ASSESSMENT

## Semestral Assessment – 100 marks

Section	Item Type	No. of Qns	Mark per Qn	Total Marks (Weighting)
A	Multiple-Choice	20	2	40 marks ( 40% )
B	Short-Answer	20	2	40 marks ( 40% )
C	Long-Answer	5	4	20 marks ( 20% )



# MATHEMATICS ASSESSMENT

## Assessment Task

Math Journal  
Problem Solving

## Rationale

- 21<sup>st</sup> CC Skills – Thoughtful Learner
- Reasoning/Justifying and Communicating skills
- Assessing beyond topical questions



# MATHEMATICS ASSESSMENT

Ms Tan asked the class to estimate the answer to “398 + 88”.

Your classmates, Ali and Bala, did the operation in the following ways:

$$398 + 88 \approx 400 + 100 = 500 \text{ (Ali)}$$

$$398 + 88 = 486 \approx 500 \text{ (Bala)}$$

Both obtained the correct answer even though their workings are different. Whose working is easier?

Why do you say so?



# SCHOOL-BASED MATHEMATICS CURRICULUM

- Speed Challenge & Mental Sums
- PSP (Problem-Solving Package)
- Math Alive
- Remedial Programme
- E2K Mathematics
- Math Olympiad
- Stretch Curriculum



# SCHOOL-BASED MATHEMATICS CURRICULUM

## Speed Challenge & Mental Sums

### Objective:

To provide opportunity for students to ...

→ practise mental calculation


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

CHIJI (KELLOCK)  
Term 1  
Name: \_\_\_\_\_ ( ) Class : P 4 \_\_\_\_\_  
Date: \_\_\_\_\_

### Mental Sums 1

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

Your score: \_\_\_\_\_





### Speed Challenge 1

Fill in the blanks.

1.	$100 + 80$
2.	$310 + 46$
3.	$700 + 400$
4.	$120 + 160$
5.	$100 - 25$
6.	$413 - 10$
7.	$2\ 600 - 300$
8.	$7 \times 5$
9.	$8 \times 3$
10.	$9 \times 4$

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

Your score: \_\_\_\_\_





# SCHOOL-BASED MATHEMATICS CURRICULUM PSP (Problem-Solving Package)

- **Aim:** To equip students with various thinking skills and heuristics to help them solve mathematical problems.
- **Approach:** The use of UPER framework to scaffold students' thinking process to problem solving.

Understand

Plan

Execute

Review



# SCHOOL-BASED MATHEMATICS CURRICULUM

## PSP (Problem-Solving Package)

- Look for a Pattern
- Work Backwards
- Model Drawing
- Make a List
- Make a Supposition
- Before-After Concept
- Grouping/Sets



# 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 15 stars will get a **Math Alive badge.**



**Parents' Symposium**

**24 March 2018**

**Using Model Drawing  
in  
Problem Solving**



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# Thank you!

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

