

Primary 3

Mathematics

CHIJ Our Lady of the Nativity
Simple in Virtue, Steadfast in Duty





Content

- Aims of The Maths Curriculum
- Approaches To Teaching & Learning
- Assessment
- Teaching & Learning Resources
- How Parents Can Help





Aims Of The Maths Curriculum

- Acquire mathematical concepts and skills for everyday use and continuous learning in mathematics
- Develop thinking, reasoning, communication, application and metacognitive skills through a mathematical approach to problem solving
- Build confidence and foster interest in mathematics





Approaches To Teaching & Learning

- Play-and-Learn Mathematics - PALM
- Teaching of Problem-solving & Heuristic Skills
- Journal Writing
- Performance Tasks
- Support Lessons
- Use of ICT (for feedback & e-pedagogy)
- Use of Formative Assessment





Approaches To Teaching & Learning (Play-and-Learn Mathematics – PALM)

- Infused into daily lessons
- Acquire concepts through concrete materials
- Interpret the mathematical solution in the context of the real-world problem
- Develop cooperative and collaborative skills





Approaches To Teaching & Learning (Teaching of Problem-solving & Heuristics Skills)

- Problem Solving - The process in which a person who is faced with a mathematical problem applies mathematical concepts, skills and process to solve the problem
- Heuristics - Methods that guide pupils to solve mathematical problems systemically by learning from past experiences and investigating practical ways.





Approaches To Teaching & Learning (Teaching of Problem-solving & Heuristic Skills)

Problem-solving & Heuristic skills taught at P3 :

- Model-Drawing
- Guess & Check
- Logical Reasoning
- Patterns
- Age Problems
- Internal Transfer
- External Transfer





Approaches To Teaching & Learning (Journal Writing)


- A communication tool between the pupil and the teacher.
- Reveals pupils' learning of knowledge and skills
- Serves as a tool for teachers to find out pupils' learning gap so that follow-up actions can be taken.





Approaches To Teaching & Learning (Journal Writing - Example)

Name: _____ Class: _____ Date: _____

 **Maths Journal**

Example

What 4-digit number can you add to 3467 to get a 4-digit even number?
Explain how you get the answer.

$3467 + 2125 = 5592$

I added a 4-digit odd number to 3467.

What 4-digit number can you add to 3467 to get a 4-digit odd number?
Explain how you got the answer. *Answers vary.*





Approaches To Teaching & Learning (Performance Tasks)

- Learning activities students perform to demonstrate their knowledge, understanding and proficiency.





Approaches To Teaching & Learning (Performance Tasks - Example)

Topic: Numbers to 10 000
Activity Sheet 2
Numbers Steven Likes

Date: _____

Complete the activity after your teacher has read you a story.

1. The numbers Steven likes in the story are: _____
2. The numbers Steven dislikes in the story are: _____

Follow the instructions below to find out what is so special about the numbers Steven likes and dislikes.

1. Pick any of the numbers.
2. Put that many counters and line them up, two by two.
3. Check if there is a counter without a partner. If there is a counter without a partner, circle the number shown below. If the counters all have partners, do nothing.
4. Investigate all the numbers.

Numbers in the story:

1	2	3	4	5	6	7	8	9	10	11	12
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3. From your investigation, what do you notice about the numbers Steven likes?

4. From your investigation, what do you notice about the numbers Steven dislikes?

5. Do you think Steven will like 19? Why?





Approaches To Teaching & Learning (Support Lessons)

- Support Lessons are conducted for selected pupils to help bridge their learning gaps.





Approaches To Teaching & Learning (Use of ICT)

- All students have access to the Singapore Students Learning Space (SLS).
- SLS is an online learning portal that allows all students to have access to quality curriculum-aligned resources.
- Teachers will make use of the resources found in SLS to complement teaching and learning.
- Pupils will work on online activities found in SLS.





Assessment (Purpose of Assessment)

- To gather evidence about pupils' knowledge of Mathematics
- To ascertain whether learning has taken place
- To provide parents with information on their children's achievement





Assessment (Modes of Assessment)

Formative Assessment (On-going)	Summative Assessment
<ul style="list-style-type: none">• Questioning & Feedback• Journal Writings• Evidence from pupils' work• Group/Class Presentations• Performance Tasks• Peer / Self Evaluation• Weighed Assessments	<ul style="list-style-type: none">• Weighed Assessments• End-of-Year Exam (EYE)





Assessment (Assessment Plan)

Term 1	Term 2	Term 3	Term 4
Weighted Assessment (WA)	Weighted Assessment (WA)	Weighted Assessment (WA)	End-of-Year Exam (EYE)
Review Paper	Review Paper	Performance Task	EYE Paper





Teaching & Learning Resources

- My Pals Are Here (Course Books & Activity Books)
- Problem-Solving & Heuristic Skills Booklets
- Play-And-Learn Mathematics (PALM) Booklet
- Practice Papers
- Supplementary Worksheets





How Parents Can Help

- Help to reinforce concepts learnt in lower levels
- Encourage your child to develop good work habits
 - Neatness & good handwriting
 - Complete written task
 - Solve problems with accuracy
 - Persevere through challenging & unfamiliar sums
- Ensure your child has regular & sufficient practices





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