



Mathematics

Learn Math, Live Math, Love Math!

Our Goals

- **Learn Math:**

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- To enable students to acquire mathematical concepts and skills and apply them in mathematical situations.

- To develop and support students' cognitive and metacognitive skills in Mathematics for them to be problem solvers imbued with 21st century competencies (21st CC).

- **Live Math:**

- To enable students to see and appreciate the relevance of Mathematics in real life.
 - To develop students to be life-long learners with the ability to think logically, abstractly, critically and creatively.

- **Love Math:**

- To nurture in students the joy of learning and to foster their positive attitudes towards the learning of Mathematics through engaging learning experiences.

Materials Required

- 3A Math Course Book
- 3A Math Activity Book
- 3B Math Course Book
- 3B Math Activity Book
- Mental Sum Exercise Book
- Brain Gym Exercise Book
- Pink File with 5 dividers

Schedule of Topics to be taught

SEMESTER 1

3A Unit 1 – Numbers to 10 000

3A Unit 2 – Addition and Subtraction
Within 10 000

3A Unit 3 – Multiplication Tables

3A Unit 4 – Multiplication and Division

3A Unit 5 – Money

SEMESTER 2

3B Unit 1 – Measures

3B Unit 2 – Graphs

3B Unit 3 – Fractions

3B Unit 4 – Time

3B Unit 5 – Angles

3B Unit 6 – Perpendicular and
Parallel Lines

3B Unit 7 – Perimeter and Area

Weighted Assessments

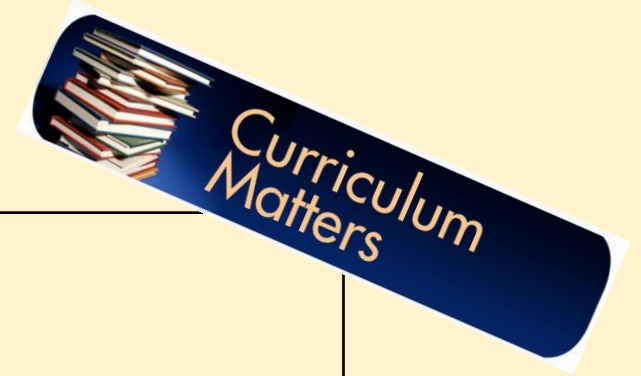
Term 1	Term 2	Term 3	Term 4
Formative Assessments	Quiz 1 (Half-paper)	Quiz 2 (Half-paper)	SA2 (Full paper)
Non-weighted (0 %)	Weighted (15 %)	Weighted (15 %)	Weighted (70 %)
Total 100%			

Format of Quizzes 1 & 2

Section	Item Types	No. of questions	No, of marks per question	Total marks	Duration
A	MCQ	5	2m	10m	55 min
B	SAQ	8	2m	16m	
C	LAQ	2	3m	14m	
		2	4m		
Total		17 qns		40 marks	

Weighted Assessment (Quiz 1) topics

P3 Math – Term 2 Week 5



3A topics	<ul style="list-style-type: none">• Numbers to 10 000• Addition & Subtraction Within 10 000• Multiplication Tables• Multiplication & Division
Others	Problem solving skills will be tested

Format

Section A: Multiple choice questions

Section B: Short-answer questions

Section C: Problem sums

Format of Exam Paper (Primary 3 SA2)

Section	Item Type	No. of questions	No, of marks per question	Total marks	Duration
A	MCQ	5	1m	13m	1h 45min
		4	2m		
B	SAQ	5	1m	45m	
		20	2m		
C	LAQ	4	4m	22m	
		2	3m		
Total		40 qns		80 marks	

SA2 Topics

All P3 topics	<ul style="list-style-type: none">• Numbers to 10 000• Addition & Subtraction Within 10 000• Multiplication Tables• Multiplication & Division• Money• Measures• Graphs• Fractions• Time• Angles• Perpendicular & Parallel Lines• Perimeter & Area
Others	Problem solving skills will be tested

Format

Section A: Multiple choice questions

Section B: Short-answer questions

Section C: Problem sums

Total Duration: 1 hour 45 min

Weighted Assessments:

Multiple Choice Questions (MCQ)

- Indicate answer on qn paper to facilitate checking
- Shade oval in OAS after completing each qn

Short Answer Questions

- To show workings clearly and write the correct answers in the spaces provided
- Do not erase the workings as method marks maybe awarded for the correct workings (for 2 marks questions) shown, if the answer is wrong.

Problem Sums

- To show each step taken and workings clearly, so that **method marks** and answer marks can be awarded accordingly.
- Pupils are encouraged to **show all steps** as method marks may be awarded, even if the answer is wrong.

PRESENTATION OF SOLUTIONS

- **Consistency** in units of measure

$$3 \text{ kg} \times 4 = 12 \text{ kg}$$

- **Use equal signs** correctly

$$\frac{1}{2} \text{ of total amount} = \$45 \text{ 😊}$$

$$\text{---} \frac{1}{2} = \$45 \text{ 😞}$$

- Show the method of solution (working steps) clearly
- Standard units of measurement should accompany the final answers. Missing units in final answers will result in mark(s) deduction.

Example:

Ans: 10 cm

Ans: \$517

Ans: 264 m

Ans: 34 kg

PROBLEM SOLVING HEURISTICS

Examples:

- Draw a model or diagram
- Make a systematic list/ Tabulation
- Look for a pattern
- Guess & Check
- Work backwards

Partnership with the school...

- Practice Papers from school...
 - Ensure conducive working environment.
 - Insist that your child sticks to the given time frame...nothing more and nothing less.
 - Good time management practice.

As a pillar of strength and support for your child...

- Praise, encourage and motivate
- Strategize – focus on areas of weaknesses
- Time Management
- **Ensure that mistakes made are corrected**
- **Exposure to Non-routine problems** – ability to apply the concepts taught in unfamiliar questions/situations
- More math...in other forms
 - Math Games → Coolmath.com
 - Math Literature → Math magazines
 - Daily life
 - Logic puzzles
- **Manage stress** – watch for change in behaviour