



Mathematics

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Format of Paper

Paper	Booklet	Item Type	No. of questions	No. of marks per question	Total Marks	Duration
1	A	Multiple Choice	10	1	10	1h
			10	2	20	
	B	Short Answer	10	2	20	

Break

2	Short Answer	10	2	20	1 h
	Structured	6	3 or 4	20	
Total		46	-	90	2h

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Additional Resources Used

- A Problem A Day Worksheet (For selected classes)
- Mathematics Journal (For selected classes)
- Visible Thinking Book
- Heuristics Worksheet
- Mental Math

P5 Math Programme

- Fortnightly Math Quiz
- Math Trail
- Play and Learn Math (PALM): Making Math Video
- Math Fun Week

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Focus

To strengthen the following basic skills

- Four operations of whole numbers, fractions and decimals.
- Conversion e.g. kilograms to grams; fractions to percentage; decimals to fractions
- Math facts e.g. multiplication table

Students who can cope with basic questions, they will be stretched further

Heuristic skills e.g. identifying a pattern

Problem solving strategies e.g. model drawing

Spatial Visualisation e.g. drawing of figures

Reasoning and communication skills e.g. Journal writing

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Science

A decorative border at the bottom of the page features a lush green field of grass with several small white daisies and colorful flowers. Numerous butterflies in various colors, including orange, yellow, and blue, are scattered across the scene, appearing to fly over the garden.

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Teaching and Learning of Science

- These are the **3 areas** to master:

Knowledge (Content)

Students need to know and understand:

- (a) Scientific facts, concepts and principles
- (b) Scientific terminology and conventions
- (c) Scientific instruments and apparatus

Process Skills

Students need to know how to:

- (a) Interpret information (including pictorial, tabular and graphical)
- (b) Investigate using one or a combination of process skills

Application of Knowledge and Process Skills

Students need to apply scientific facts, concepts and principles to new situations.



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Format of Paper

- The mastery of the **3 areas** can be demonstrated in:
 - One written paper comprising two booklets:
Booklets A and Booklet B

Format of Paper (Foundation)

Booklet	Duration	Item Type	No. of questions	Marks per question	Marks
A	1h 15mins	Multiple-choice	18	2	36
B		Structured	6 – 7	2 – 3	14
		Open-ended	5 – 6	2 – 4	20

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Student Learning Experiences

How do we provide the best learning experience for our students to master the **three areas**?

Engage students

- Hands-on investigation to explore concepts (Inquiry Based Learning)

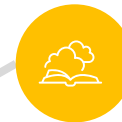


Provide opportunities for Practice, Review and Revision

- Wrap-up and sense-making packages:
 - Science Process Skills
 - MCQ Companion
 - Concept Mastery/School-Based Assessment
- Supplementary / Additional support



Use strategies to support student learning



- **SLPS** to answer science questions:
Sudy question, Link to concepts, Plan answer, Sudy answer
- **CER** to construct explanation: **C**laim, **E**vidence, **R**easoning
- **#Concepts** to support students in retrieving concepts



Thank You

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