



Primary 5

Bukit Timah Primary School

1

Mathematics MTPS (Cohort Briefing) 2022

+

2

27 January 2022



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Mathematics Teaching & Learning in BTPS



BTPS Approach

Extend Mathematical
Thinking through
Mastery



Pedagogy

C – P – A
IBL – TR



Differentiated Programmes



Teaching Resources



Assessment

Assessment Plan
Paper Format



Extend Mathematical Thinking with Mastery in Mathematics

2



Consolidation Reflection

Consolidate and
reflect on their
learning in
Mathematics



Investigative & Authentic Tasks

Complex tasks that require
them to investigate, clarify,
connect and apply
mathematical concepts
learnt effectively



Rigor to Mastery

Provide more rigor to
prepare our students
towards mastery

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Mathematics Teaching & Learning in BTPS



C – P – A

Introduce topics through **hands-on activities** that leverage on **conceptual development**.

Infuse **interactive activities** for students to experience the **joy of learning** Mathematics.

Encounter mathematics in an **authentic** way to **make meaning to learning**.



IBL – TR

Use of **mathematics journaling** in Thinking of Mathematics (TOM) to encourage **creative and critical thinking** as well as **reasoning and communication skills**.

Thinking routines to **reflect** on their learning and **make connections** to the topics learnt to deepen their conceptual knowledge.



Mathematics Teaching & Learning in BTPS



Differentiated Programmes for Mathematics Learning

- Primary 5 Learning Support (Pull-out) – Supporting mathematics learning during curriculum time (selected students)
- Primary 5 ASC Programme – Supporting mathematics learning (selected students).
- Primary 5 Math Olympiad Programme – Developing higher-order thinking skills (selected students only).
- Primary 5 E2K Programme – Develop higher-order thinking skills (selected students).





Mathematics Teaching & Learning in BTPS



Differentiated Programmes for Mathematics Learning

- Primary 5 Math Learning Day
- Primary 5 Junior Achievement Programme





Mathematics Teaching & Learning in BTPS



Resources for Teaching and Learning

- Textbooks and Workbooks
- TOM Journals
- Heuristics Booklets (PSH & I can Solve)
- Speed and Accuracy Practices
- Practice Papers
- Koobits and other online resources





Mathematics Teaching & Learning in BTPS



Primary 5 Syllabus

1. A spiral approach is adopted in the building up of content across levels.

| Topics build up from Primary 4 | New Topics in Primary 5 |
|---|---|
| Whole Numbers +, -, \times , \div , Fractions Decimals Angles | Average Ratio Rate Percentage Area of Triangle Triangles Quadrilaterals |

2. Introducing the use of calculators.





Mathematics Assessment in BTPS (Standard)

| | Term 1 | Term 2 | Term 3 | Term 4 |
|-----------|-------------------|-------------------|----------------|---------------------------------|
| Base Mark | 30 | 30 | 30 | 100 |
| Weightage | 10% | 15% | 15% | 60% |
| Schedule* | Week 7 | Week 8 | Week 8 | Week 7 27 Oct 2022 |
| Topics | Chapter 1 to 2 | Chapter 3 to 5 | Chapter 6 to 8 | P3 and 4 Topics 5A and 5B |
| Format | MCQ SAQ LAQ | MCQ SAQ LAQ | SAQ LAQ | MCQ SAQ LAQ |
| Duration | 50 min | 50 min | 50 min | 2 h 30 min |

* Subject to change.

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Mathematics Assessment in BTPS (Standard)

| Term 4 (60%) | | | | | | |
|-------------------------------------|---------|--------------------------|---------------------|------------------------------|-----------------|------------|
| Paper 1 (1h) Paper 2 (1h 30 min) | | | | | | |
| Paper | Booklet | Item Type | Number of Questions | Number of marks per question | Number of marks | Duration |
| 1 | A | Multiple-choice | 10 | 1 | 10 | 1 h |
| | | | 5 | 2 | 10 | |
| | B | Short-answer | 5 | 1 | 5 | |
| | | | 10 | 2 | 20 | |
| 2 | | Short-answer | 5 | 2 | 10 | 1 h 30 min |
| | | Structured / Long-answer | 12 | 3, 4, 5 | 45 | |
| | | | 47 | - | 100 | 2h 30 min |



Mathematics Assessment in BTPS (Foundation)

| | Term 1 | Term 2 | Term 3 | Term 4 |
|-----------|-------------------|-------------------|-------------------|-----------------------|
| Base Mark | 30 | 30 | 30 | 90 |
| Weightage | 10% | 15% | 15% | 60% |
| Schedule* | Week 7 | Week 6 | Week 7 | Week 7 27 Oct 2022 |
| Topics | Chapter 1 to 4 | Chapter 4 to 5 | Chapter 6 to 8 | 5A and 5B |
| Format | MCQ SAQ LAQ | MCQ SAQ LAQ | MCQ SAQ LAQ | MCQ SAQ LAQ |
| Duration | 50 min | 50 min | 50 min | 2 h |

* Subject to change.

Official-open / Non-sensitive



Mathematics Assessment in BTPS (Foundation)


Term 4 (60%)

Paper 1 (1h)
Paper 2 (1h)

| Paper | Booklet | Item Type | Number of Questions | Number of marks per question | Number of marks | Duration |
|-------|---------|--------------------------|---------------------|------------------------------|-----------------|----------|
| 1 | A | Multiple-choice | 10 | 1 | 10 | 1 h |
| | | | 10 | 2 | 20 | |
| | B | Short-answer | 10 | 2 | 20 | |
| 2 | | Short-answer | 10 | 2 | 20 | 1 h |
| | | Structured / Long-answer | 6 | 3, 4 | 20 | |
| | | | 46 | - | 90 | 2h |

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1 Mathematics Assessment @ Primary 5

A decorative graphic in the top-left corner featuring a large orange number '1' with yellow diagonal stripes, a pink number '4' with a white outline, and a yellow plus sign.

Formative assessment will also take place regularly to ensure timely feedback on their learning can be given to students.

- Worksheets (topical, speed and accuracy and heuristics)
- TOM Journals
- Class-based activities and ICT enriched activities



1 Mathematics Assessment @ Primary 5

4+

Feedback to parents

- Topical worksheets will be sent home for parent's acknowledgement after the completion of each topic.
- Files will be sent home for revision and parent's acknowledgement termly.
- Self-assessment checklist will be pasted in TOM and sent home for parent's acknowledgement after the completion of each topic.

2
%



Partnership with Parents

How can you help your child?

- Ensure your children revise the work that we have done in class everyday.
- Monitor their homework, eventually work towards them taking ownership of their own learning.
- Encourage them not to be over-reliance on the use of calculators.
- Encourage them to draw models to solve word problems.
- Encourage them to work within the stipulated time frame (for better time management during examinations, especially for Paper 1).
- Encourage them to check their work.





Thank

8%5

You!



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