




Primary 4

Bukit Timah Primary School



Mathematics MTPS (Cohort Briefing) 2023



1 February 2023



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Mathematics Teaching & Learning in BTPS

01

BTPS Approach

Enjoy Mathematics
through Exploration

02

Pedagogy

C-P-A
IBL- TR

03

Programmes

04

Teaching Resources

05

Assessment

Assessment Plan
Paper Format

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Mathematics Teaching & Learning in BTPS



C-P-A



IBL-TR



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**.

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

Thinking routines like “**Claim Support Question**” and “**Connect Extend Challenge**” will be used in Primary 4.

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Enjoy Mathematics through Exploring, Reasoning and Communicating Mathematics logically



Authentic Experiences

More opportunities to explore real-life and novel maths problems



Thinking skills and processes

Balanced with teaching of standard curriculum topics and challenging tasks for students to apply higher order thinking skills.



Reasoning & Communication

Engage in discussions to reason and communicate logically, leading to deeper mathematical understanding.

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Programmes for Mathematics Learning



1. Pull-out Programme – Supporting mathematics learning. (Starting Term 2)
2. After-School Classes – Support programme for selected students only.
3. Math Olympiad Programme – Developing higher-order thinking skills.
4. E2K Programme – Developing higher-order thinking skills.
5. Calculator Workshop – Preparing for the use of calculator at P5.
6. Math Learning Day – Joy of Learning and Application of mathematics thinking
7. Junior Achievement Programme – Financial Literacy Programme



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Resources for Teaching and Learning

1. Textbooks and Workbooks
2. ICS Booklets: Problem Solving Strategies
3. Problem Heuristics Booklets: Make a List, Working backwards, Make a supposition etc.
4. Practice Papers
5. Speed Tests
6. Koobits and other online resources
7. TOM Journal



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What is new in Primary 4 syllabus?

Topics build up from Primary 3

Whole Numbers

$+$, $-$, \times , \div

Fractions

Time

Angles

Area and Perimeter



New topics in Primary 4

Factors and Multiples

Squares and Rectangles

Symmetry

Decimals

Tables and Line Graphs



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Mathematics Assessment @ P4



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

- Worksheets (topical and heuristics)
- Topical Reviews
- TOM Journal
- Koobits and ICT enriched activities

Mathematics Assessment Plan for Primary 4

	Term 1	Term 2	Term 3	Term 4
Base Mark	30	30	30	100
Weightage	10%	15%	15%	60%
Schedule (subject to change)	Week 9	Week 7	Week 6	Week 7
Topics	Chapter 1 to 3	Chapter 4 to 7	Chapter 8 to 11	4A and 4B books
Format	MCQ, SAQ, LAQ	MCQ, SAQ, LAQ	MCQ, SAQ, LAQ	MCQ, SAQ, LAQ*
Duration	50 min	50 min	50 min	1h 45 min

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P4 Math Self-Assessment Checklist
Chapter 1 – Numbers to 100 000

Name: _____ Class: 4 () Parent's Signature: _____

Choose the level that best describes your level of understanding of the Math concepts.

Qualitative Descriptors	
Beginning	I am beginning to understand this Math concept but I still need help.
Developing	I have some understanding of this Math concept and need to make some improvement.
Competent	I have understood this Math concept very well and can explain it to my friend.

Learning Outcomes		Beginning	Developing	Competent
Numbers to 100 000				
1.	Read and write numbers in words and numerals			
2.	Compare and order numbers			
3.	Complete a number pattern			
4.	Round off numbers to the nearest ten.			
5.	Round off numbers to the nearest hundred.			
6.	Round off numbers to the nearest thousand.			
7.	Use estimation to check my answer.			

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 termly.

Self-assessment checklist will stapled with the topical worksheets and sent home for parent's acknowledgement after the completion of each topic.

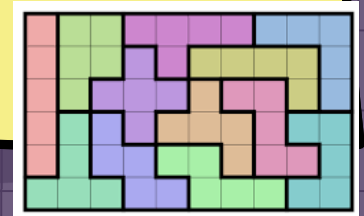
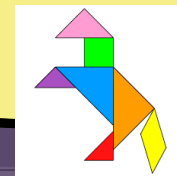
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Partnership with Parents



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 to draw models to solve word problems.
- Encourage them to work within the stipulated time frame (for better time management during examinations).
- Encourage them to play games that strengthen their spatial visualisation skills. For example, tangrams, pentominos etc.
- Encourage them to check their work.



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Thank
you!

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