

Primary 6 Nathematics Curriculum Information





Curriculum



Love to Learn Maths Learn to Love Maths





The **Primary Mathematics Syllabus** aims to enable all students to:

- 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; and
- build confidence and foster interest in mathematics.



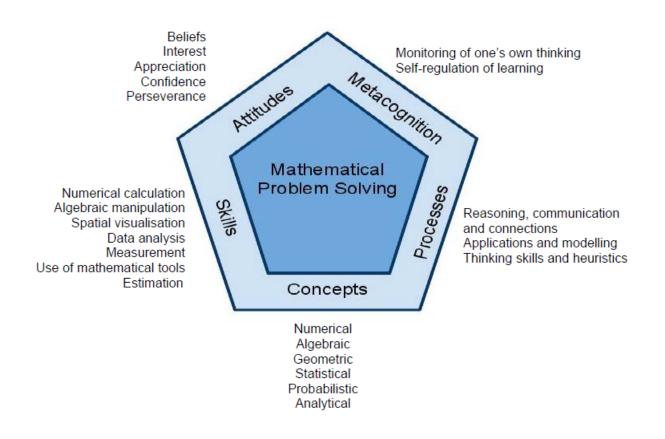
Love to Learn Maths
Learn to Love Maths





Mathematics Syllabus

https://www.moe.gov.sg/primary/curriculum/syllabus





Standard Mathematics and Foundation Mathematics

- The P1 P4 syllabus is common to all students.
- The P5 P6 Standard Mathematics syllabus continues the development of the P1 - P4 syllabus, whereas the P5 - P6 Foundation Mathematics syllabus re-visits some of the important concepts and skills in the P1 - P4 syllabus.
- The new concepts and skills introduced in Foundation Mathematics is a subset of the Standard Mathematics syllabus





@ PRIMARY 4

Student sits for school-based examinations

School recommends a subject combination based on the student's results.

Parents fill up an option form indicating the preferred combination.

@ PRIMARY 5

Student takes subject combination chosen by parents

English Language, Mathematics, Science and Mother Tongue Language are available at standard and foundation levels.

Higher Mother Tongue Language is also available.

School assesses student's ability to cope with the current subject combination at the end of the year. Adjustments to the number of standard and foundation subjects can be made, if necessary.

@ PRIMARY 6

Student takes subject combination decided by his school and sits for the Primary School Leaving Examination (PSLE) at the end of Primary 6.

Some students are offering Foundation Mathematics.

This enables them to focus on building up strong fundamentals in the subject and better prepares their for progression to secondary school.



Pedagogy







Learner-centred pedagogy

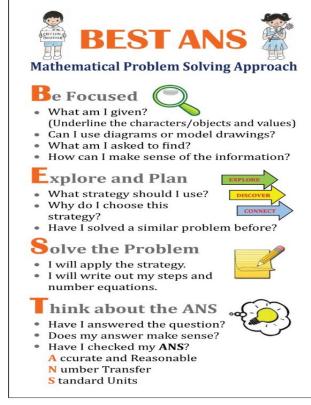
Teachers will use appropriate pedagogical approaches:

- Concrete-Pictorial-Abstract approach (C-P-A)
- Hands-on learning experiences
- Co-operative learning, opportunities for collaborative work
- Differentiated Instruction (DI Content, Process, Product)
- E-learning, SLS Lessons, etc

 Informal Formative Assessment (FA) strategies to monitor and deepen students' learning

Guide students in using BEST ANS problem solving strategy

 Provide Critical Thinking exercises to equip students with problem solving heuristics







Assessment



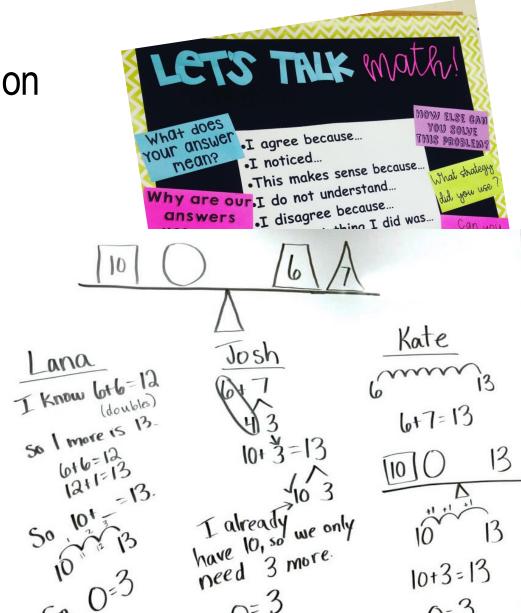
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Informal modes of assessment to gauge students' learning

Maths Talk/Class Discussion
Learning experiences
Mathematics Project

Collaborative Work





P6 Mathematics School-based Assessment	
Preliminary Examination	100%

Term	Assessment
2	Common-Timed Practice (non-weighted)
3	Preliminary Examination
4	PSLE



P6 Standard Mathematics Prelim/PSLE Format

	Number of questions	Marks per question	Number of Marks	Duration
Paper 1	10	1	10	Paper 1
Booklet A MCQ	5	2	10	Booklet A & B
Booklet B	5	1	5	1 hour
Short-answer Q	10	2	20	No calculators
			'	
Paper 2				Paper 2
Short-answer Q	5	2	10	1 h 30 min
Structured/ Long-answer Q	12	3, 4 or 5	45	The use of calculators is
Total	47	-	100	allowed.



P6 Standard Mathematics Examination Format

- 1. Both papers will be scheduled on the same day with a break between the two papers.
- 2. Paper 1 comprises two booklets.

 The use of calculators is **not** allowed.
- **3. Paper 2** comprises one booklet. The use of calculators is allowed.

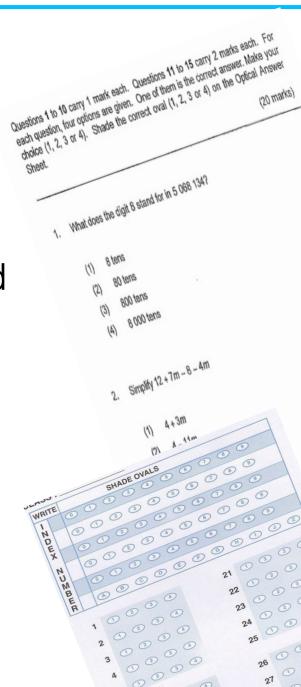


Item Types

Multiple-Choice Question

For each question, four options are provided of which only one is the correct answer.

The 1-mark multiple-choice questions will be straightforward questions that assess basic concepts and skills of the Primary Mathematics syllabus.





Item Types

1-mark Short-Answer Question

For each question, a candidate has to write his answer in the space provided.

Marks are awarded for correct answers.

Any unit required in an answer is provided and a candidate has to give his answer in that unit.

The 1-mark short-answer questions will be straightforward questions that assess the basic concepts and skills of the Primary Mathematics syllabus.



2-mark Short-Answer question

The question may comprise one or two parts. For each question, a candidate has to write his answer(s) in the space(s) provided.

Marks are awarded as follows:

For questions with two parts, 2 marks are awarded for the correct answers, one mark for each part.

For questions with one part only, 2 marks are awarded for the correct answer.

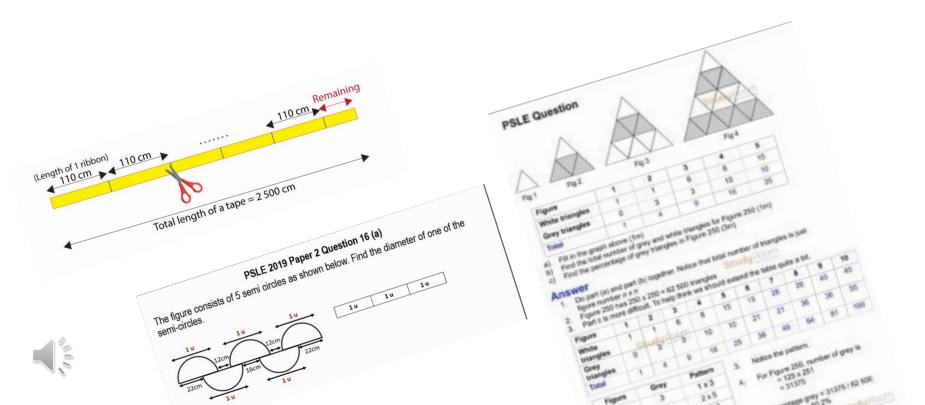
If an incorrect answer is given, 1 mark is awarded for the correct method or working shown.

Any unit required in an answer is provided and a candidate has to give his answer in that unit.



Structured / Long-answer Question

For each question, a candidate has to show his method of solution (working steps) clearly and write his answer(s) in the space(s) provided.



Foundation Mathematics Prelim/PSLE Format

	Number of questions	Marks per question	Number of Marks	Duration
Paper 1	10	1	10	Paper 1
Booklet A MCQ	10	2	20	Booklet A & B
Booklet B				1 hour
Short-answer Q	10	2	20	No calculators
Paper 2				Paper 2
Short-answer Q	10	2	20	1 hour
Structured Q	6	3 or 4	20	The use of calculators
Total	46	-	90	is allowed.



P6 Foundation Mathematics Examination Format

- 1. Both papers will be scheduled on the same day with a break between the two papers.
- 2. Paper 1 comprises two booklets.
 The use of calculators is **not** allowed.
- 3. Paper 2 comprises one booklet.

 The use of calculators is allowed.



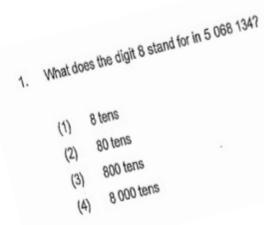
P6 Foundations Mathematics Examination Format

Item Types

Multiple-Choice Question

For each question, four options are provided of which only one is the correct answer.

The 1-mark multiple-choice questions will generally be short, simple and straightforward questions that assess basic concepts and skills of the Primary Foundation Mathematics syllabus.







P6 Foundations Mathematics Examination Format

Item Types

Short-Answer Question

The question may comprise one or two parts. For each question, a candidate has to write his answer(s) in the space(s) provided.

Marks are awarded as follows:

For questions with two parts, 2 marks are awarded for the correct answers, one mark for each part.

For questions with one part only, 2 marks are awarded for the correct answer.

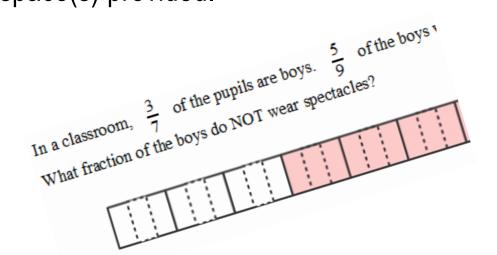
If an incorrect answer is given, 1 mark is awarded for the correct method or working shown.

Any unit required in an answer is provided and a candidate has to give his answer in that unit.

P6 Foundations Mathematics Examination Format

LAQ or Structured question

For each question, a candidate has to show his method of solution (working steps) clearly and write his answer(s) in the space(s) provided.





Use of Calculators

Only calculators that are <u>approved</u> by the **Singapore Examinations** & **Assessment Board (SEAB)** will be allowed in the examination.

The calculator must be:

- silent, with a visual display only.
- indicated clearly with the model number and brand for verification purposes.
- in working condition (including the power supply).
 This is the responsibility of the candidate.
- Your child cannot share calculators with other candidates during the examination.
- (More details are given in the "PSLE Instructions for Candidates".)

Our students are using the following models:

CASIO fx 97SG X
CASIO fx 96SG PLUS



Level-Specific Programme Highlights

	School-based
1	FunMath@Class Activities
2	P6 Mathematics Quiz



Mathematics Competitions - Optional

For interested students (registration required, self-funded, details will be given at a later date)

1	Visual-Spatial Mathlympics by Learners' Connection
2	RI Mathematics Contest by RI
3	SMOPS by HCI











How can parents help?

Please ensure that your child has a good mastery of the basic concepts and skills (learnt in P4 & P5) for the following topics:

- Whole Numbers
- > Fractions
- > Ratio
- Decimals
- > Geometry
- Measurement
- Data Analysis

*Details can be found in the P4 & P5 textbooks and materials



How can parents help?



Monitor & ensure that your child does his schoolwork so that he has sufficient practice to acquire the necessary procedural skills, accuracy and speed



Regularly check your child's books/file

- My Pals Maths Test Book 6
- Critical Thinking Booklet A, B, C & D
- > STRETCH Book 5
- PSLE (2020-2022) Books SMA Book, FMA Book
- Supplementary Worksheets, PSLE Practice Papers





Home-School Partnership

Recommended <u>Optional</u> Supplementary Materials (available from the school bookshop)

My Pals! Homework Book 6A & 6B

A* Maths Problem Booklets

STRETCH Mathematics Book 6

Smart Mathematician Magazine

Subscription:

https://youngscientistsreader.com.sg





Encourage your child to develop good work habits

- Overall presentation demonstrating good understanding of Mathematics concepts required to complete task
- Good handwriting
- Complete written task
- Solve problems with accuracy
- Bring the necessary stationery
 - → Pen, pencil, ruler, eraser, mathematical set, calculator
- Use of correction tape is not allowed







Home-School Partnership

How can parents help?





Discourage over-dependence on the use of calculators to ensure that your child is able to perform important computational skills with accuracy and speed.

Get your child accustomed to sitting and focusing for a period of at least 1h 30 min





Parents' Support

Parents play an important role in fostering the **Joy of Learning.**

Support your child in developing dispositions for **lifelong learning**.



In Partnership with Parents to Develop your child to their Fullest Potential: Every child a Creator, Connector, Contributor



