Primary 3

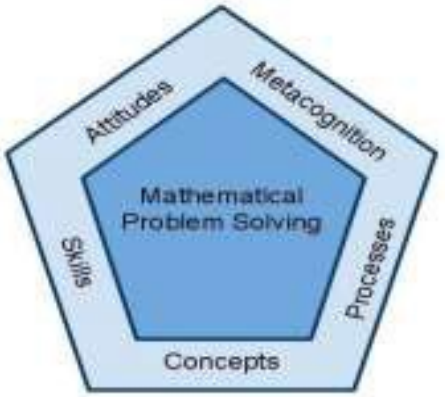
Mathematics

Curriculum Information

2023

Curriculum

Objectives



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.

Overview of Syllabus

Primary Mathematics (2021) Syllabus

The document is available from MOE Website.

Specific topics to be covered are in the
Primary 3 Primary Mathematics Textbooks.

Syllabus: Learning Outcomes for P3

Numbers up to 10 000

- Counting in hundreds/thousands
- Number notation, representations and place
- Values (thousands, hundreds, tens, ones)
- Reading and writing numbers in numerals and in words
- Comparing and ordering numbers
- Patterns in number sequences

Addition and Subtraction

- Addition and subtraction algorithms (up to 4 digits)
- Solving up to 2-step word problems involving
- **Mental calculation** involving addition and subtraction of two 2-digit numbers

Syllabus: Learning Outcomes for P3

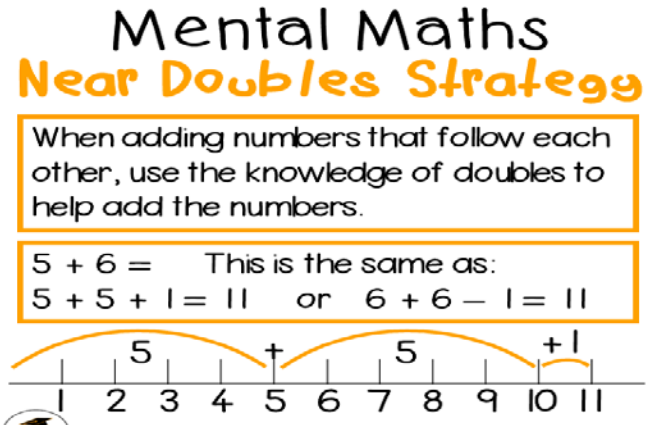
Multiplication and Division

- Committing to memory the multiplication tables of 6, 7, 8 and 9
- Use of the terms ‘product’, ‘quotient’ and ‘remainder’
- Multiplication and division within the multiplication tables
- Division with remainder
- Multiplication and division of numbers up to 3 digits by 1 digit
- Solving up to 2-step word problems involving the 4 operations

Mental Calculation

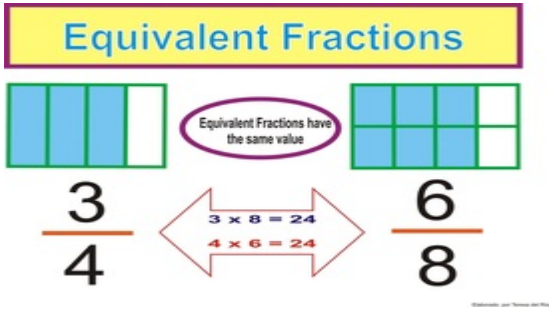
- Addition and subtraction involving two 2-digit numbers

- Multiplication and division within the multiplication table



Syllabus: Learning Outcomes for P3

FRACTIONS



Equivalent Fractions

- ❑ Recognising and naming equivalent fractions
- ❑ Listing equivalent fractions of a given fraction
- ❑ Writing the equivalent fraction of a fraction given the denominator or the numerator
- ❑ Expressing a fraction in its simplest form
- ❑ Comparing and ordering unlike fractions

Addition and Subtraction of Fractions

Syllabus: Learning Outcomes for P3

MEASUREMENT

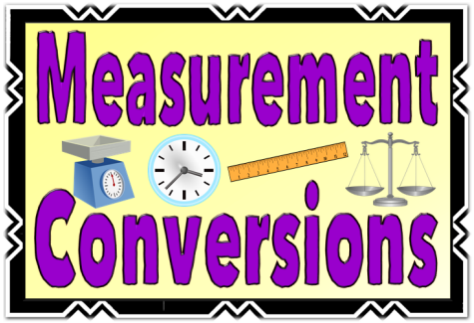
Length, Mass and Volume

- Measurement of length in kilometres (km), volume of liquid in millilitres (ml)
- Measurement of length/mass/volume (of liquid) in compound units

Syllabus: Learning Outcomes for P3

MEASUREMENT: Length, Mass and Volume

- Conversion of a measurement in compound units to the smaller unit and vice versa
  - kilometres and metres
  - metres and centimetres
  - kilograms and grams
  - litres and millilitres



- Solving word problems involving length/ mass/ volume/capacity

Syllabus: Learning Outcomes for P3

TIME

- Time in Seconds
- 24-hour Clock
- Starting & Finishing Time, Duration
- Conversion of time in hours, minutes & seconds
- Solving word problems involving time

Syllabus: Learning Outcomes for P3

MONEY

- Addition and subtraction of money in decimal notation

- Solving word problems involving addition and subtraction of money in decimal notation

Syllabus: Learning Outcomes for P3

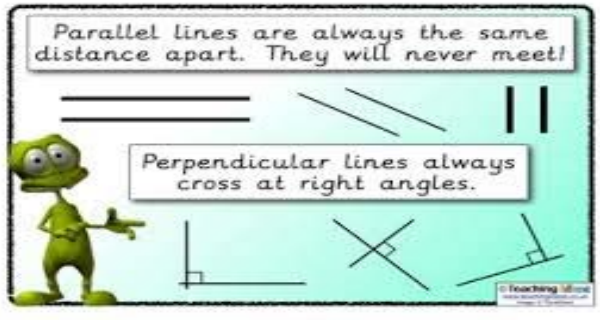
AREA AND PERIMETER

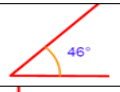
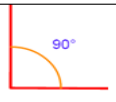
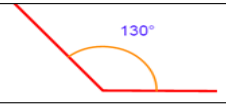
- Concepts of area and perimeter of a plane figure
- Measurement of area in square units
- Measurement of area in square centimetres (cm^2) / square metres (m^2)
- Calculation of the perimeter of rectilinear figures, rectangles, squares
- Use of formula to calculate the area of a rectangle/ square
- Solving word problems involving the area/ perimeter of squares and rectangles

Syllabus: Learning Outcomes for P3

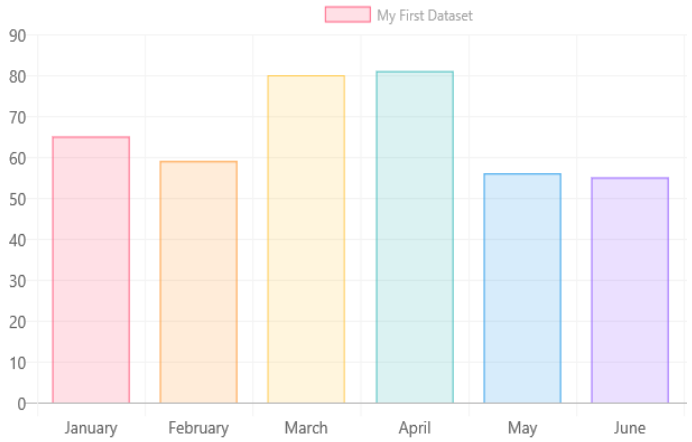
GEOMETRY : Angles, Perpendicular and Parallel Lines

- ❑ Identifying and naming perpendicular and parallel lines
- ❑ Drawing perpendicular and parallel lines on square grids
- ❑ Angle as an amount of turning
- ❑ Acute angle, Right angle, Obtuse angle



Type of Angle	Description	Example
Acute Angle	An angle that is less than 90°	
Right Angle	An angle that is exactly 90°	
Obtuse Angle	An angle that is greater than 90° and less than 180°	
Straight	An angle that is exactly 180°	

Syllabus: Learning Outcomes for P3



DATA ANALYSIS

Bar graphs

- Reading and interpreting bar graphs in both horizontal and vertical forms, reading scales
- Completing a bar graph from given data
- Solving problems using information presented in bar graphs

Pedagogy

Learner-centred pedagogy

Teachers will use appropriate pedagogical approaches:

Concrete-Pictorial-Abstract approach (C-P-A)

Hands-on learning experiences

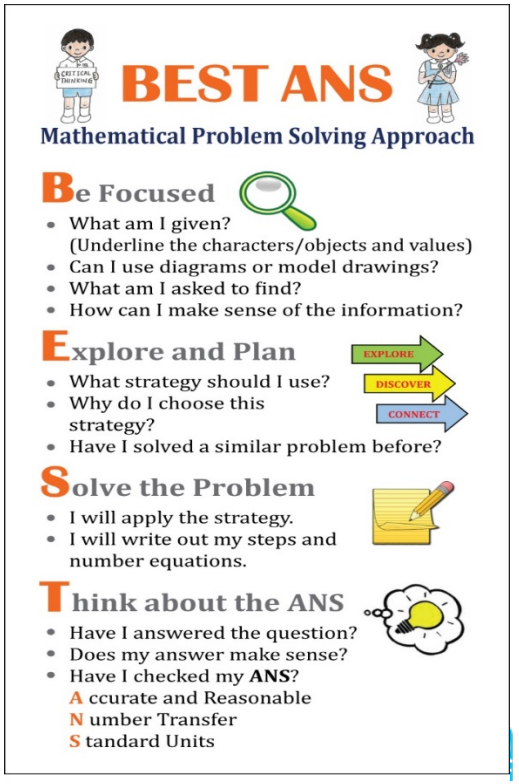
Co-operative learning

E-learning, SLS Lessons , etc

- Use 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



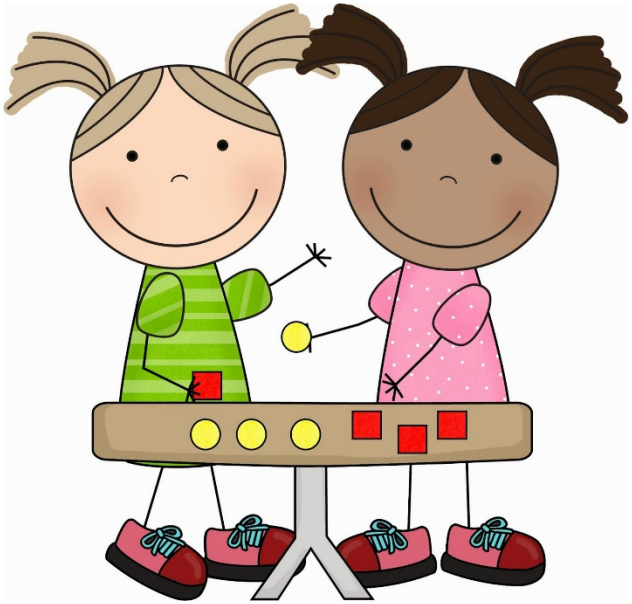
Assessment

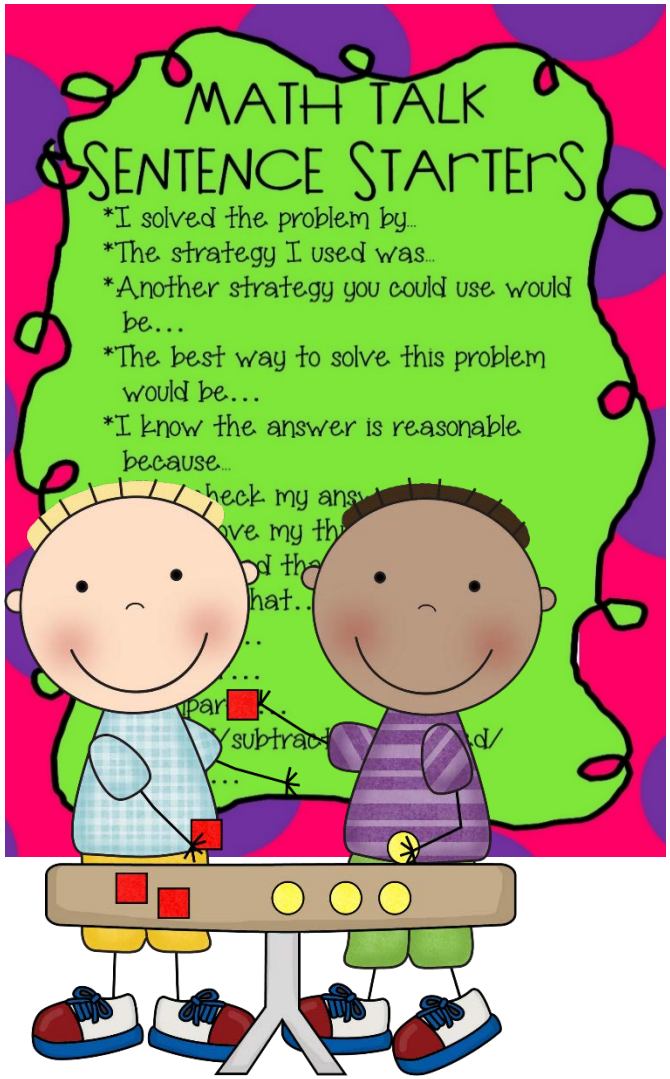
Informal modes of assessment to gauge students' learning

Maths Talk/Class Discussion

Learning experiences

Collaborative Work





P3 Formative Assessment

Learning experiences /activities such as:

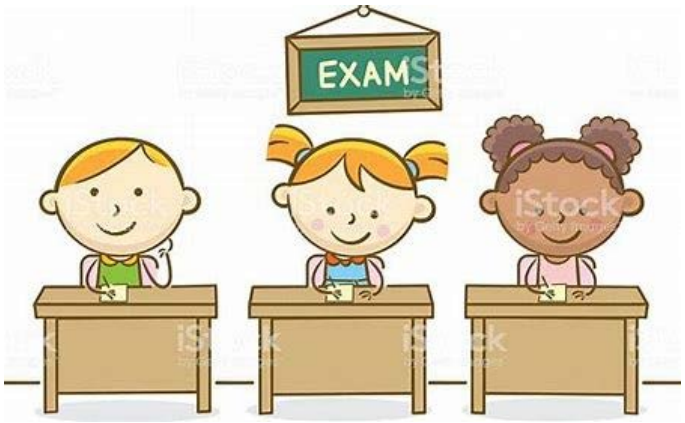
Using the weighing scale
Measuring volume, length
Completing patterns
Time etc.

P3 Mathematics School-based Assessment

Components	Weighting
Formative Assessment Journal Hands-on Activities Review Exercises	Non-Weighted
Weighted Assessments (WA1 & WA2)	30%
End-of-Year Examination	70%
Overall	100%

Primary 3
Mathematics Written Assessment

School-based Assessment	Weighted Assessments	End-of-Year Examination
Weighting	30%	70%
Time-frame	**Term 2** (WA1 - 15%) **Term 3** (WA2 - 15%)	**Term 4**



Primary 3

Weighted Assessment: Format

	Item-Type	Number of Q
WA1/WA2	Short-Answer Questions	10
	Long-Answer Questions	**5**

	Item-Type	Number of Q
End-of-Year Exam	Multiple Choice Questions	8
	Short-Answer Questions	**8**
	Long-Answer Questions	**8**

Home-School Partnership

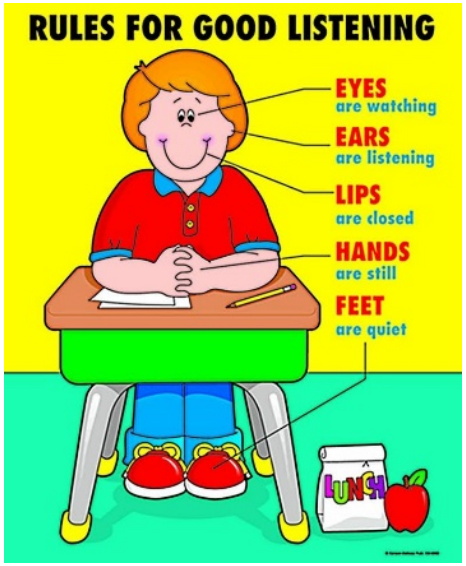
How can parents help?

Please ensure that your child has mastery in these (P2) topics:

- ❑ Addition & Subtraction
- ❑ Multiplication
- ❑ Length
- ❑ Mass & Volume
- ❑ Time
- ❑ Money
- ❑ Picture Graphs
- ❑ 2-D/3-D Figures
- ❑ Patterns

(Details can be found in the P2 textbooks)

Instill in your child positive learning attitude and good habits to maximize learning



☑ Behave, Focus and Participate

☑ Listen and Speak at appropriate times

☑ Be organized

☑ Write with good handwriting

☑ *Bring necessary **stationery***

☑ *Be accustomed to sitting for 1 hour*

Books for Primary 3

Primary Maths Textbooks 3A & 3B

NEW

Practice Books 3A & 3B

Enrichment :
Critical Thinking & STRETCH Exercises

Please ensure that your child shows you his/her work regularly.

*Recommended **Optional** Supplementary Materials*

(available from the school bookshop)

Targeting Maths Companion 3A & 3B

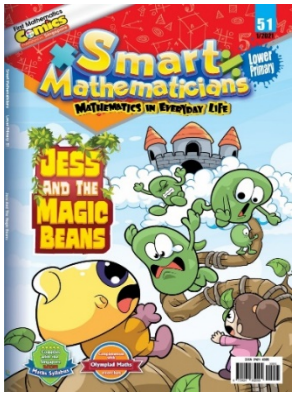
My Pals! Test Book 3 & Homework Book 3A & 3B

Amazing Mathematics Book 3A & 3B

+Venture In Maths! Magazine

Subscription:

https://www.add-venture.com.sg



Smart Mathematician Magazine

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Parents to Develop
your Children
to their Fullest Potential