Primary 4

Mathematics

Curriculum Information

2024

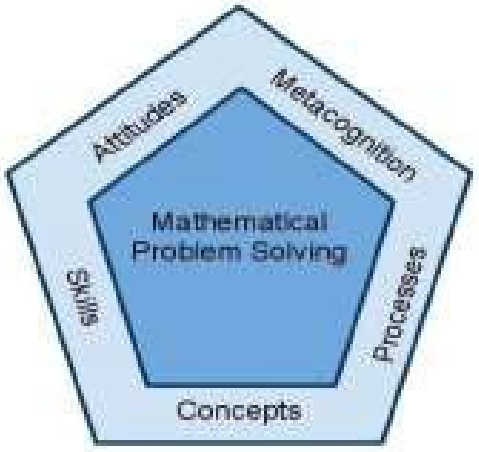
Curriculum

Love to Learn Maths
Learn to Love Maths

Primary Mathematics (2021) Syllabus

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.



Primary Mathematics (2021) Syllabus

The document is available from MOE Website.

Specific topics to be covered are in the
Primary 4 Primary Mathematics Textbooks

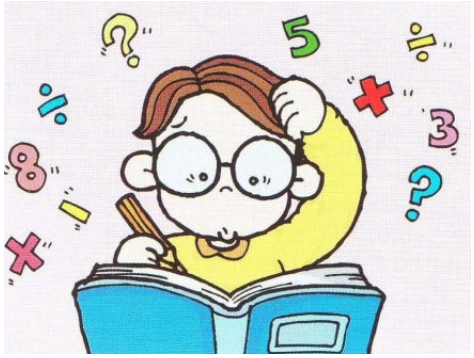
Syllabus: Learning Outcomes for P4

Numbers up to 100 000

- Number notation, representations and place values (ten thousands, thousands, hundreds, tens, ones)
- Reading and writing numbers in numerals and in words
- Comparing and ordering numbers
- Patterns in number sequences
- Rounding numbers to the nearest 10, 100 or 1000
- Use of ≈

Factors and Multiples

- Factors, multiples and their relationship
- Determining if a 1-digit number is a factor of a given number within 100
- Finding the common factors of two given numbers
- Determining if a number is a multiple of a given 1-digit number
- Finding the common multiples of two given 1-digit numbers



Syllabus: Learning Outcomes for P4

Four Operations of Whole Numbers

- Multiplication algorithm
  - Up to 4 digits by 1 digit
  - Up to 3 digits by 2 digits

- Division algorithm
  - Up to 4 digits by 1 digit

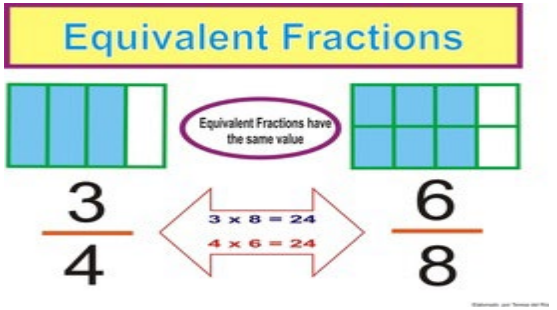
Syllabus: Learning Outcomes for P4

Tables and Line Graphs

- Completing a table from given data
- Reading and interpreting data from tables/ line graphs

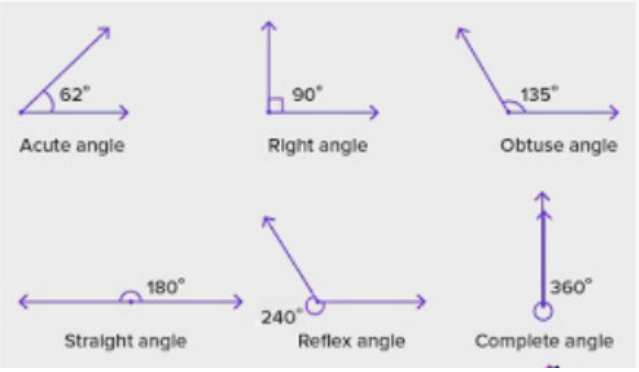
Syllabus: Learning Outcomes for P4

FRACTIONS



- ❑ Equivalent Fractions
- ❑ Recall of Mixed Numbers and Improper Fractions
- ❑ Recall of Comparing and Ordering Fractions
- ❑ Addition and Subtraction of Fractions
- ❑ Fraction of a set

Syllabus: Learning Outcomes for P4

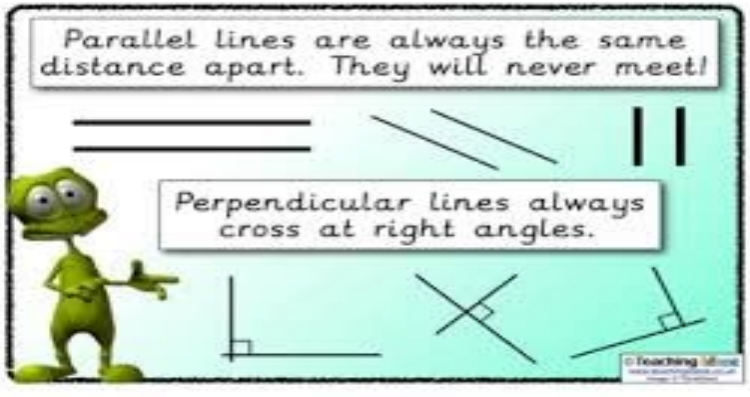


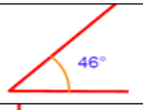
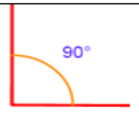
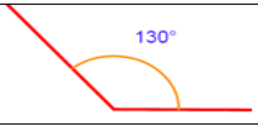
ANGLES

- ❑ Naming, measuring and drawing Angles

RECTANGLES AND SQUARES

- ❑ Properties of Rectangles and Squares
- ❑ Drawing Rectangles and Squares



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°	

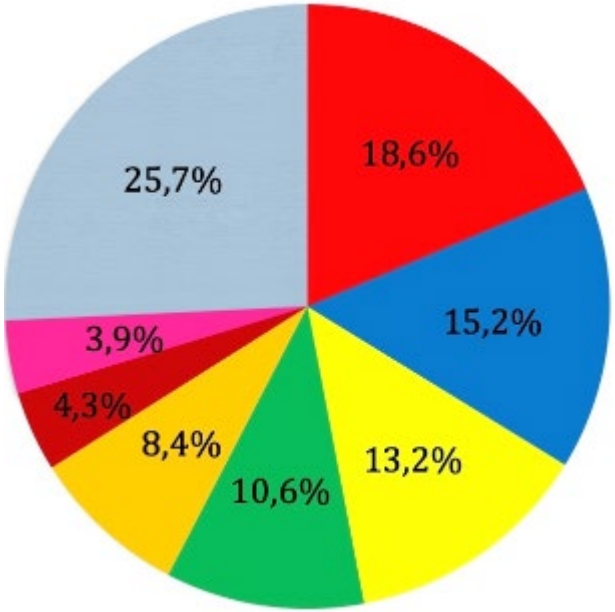
Syllabus: Learning Outcomes for P4

DECIMALS

- ❑ Tenths, Hundredths, Thousandths
- ❑ Comparing and ordering Decimals
- ❑ Rounding Decimals
- ❑ Expressing a Decimal as a Fraction and vice versa
- ❑ 4 operations of Decimals

Syllabus: Learning Outcomes for P4

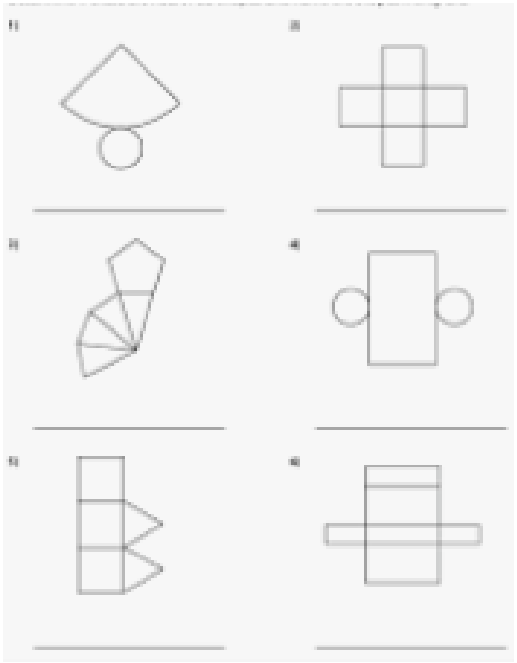
PIE CHARTS



AREA AND PERIMETER

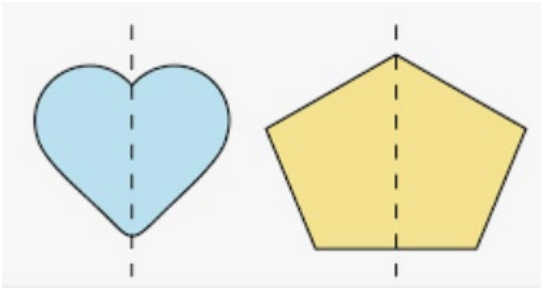
- ❑ Finding the length of squares
- ❑ Finding unknown sides of Rectangles
- ❑ Perimeter and Area of Composite Figures

Syllabus: Learning Outcomes for P4



NETS

- ❑ Geometric Figures
- ❑ Identifying Nets of Geometric Figures
- ❑ Drawing Geometric Figures on Isometric Grids



SYMMETRY

- ❑ Symmetric Figures and Lines of Symmetry
- ❑ Completing Symetric Figures on Grids

Pedagogy

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Learn to Love Maths

Learner-centred pedagogy

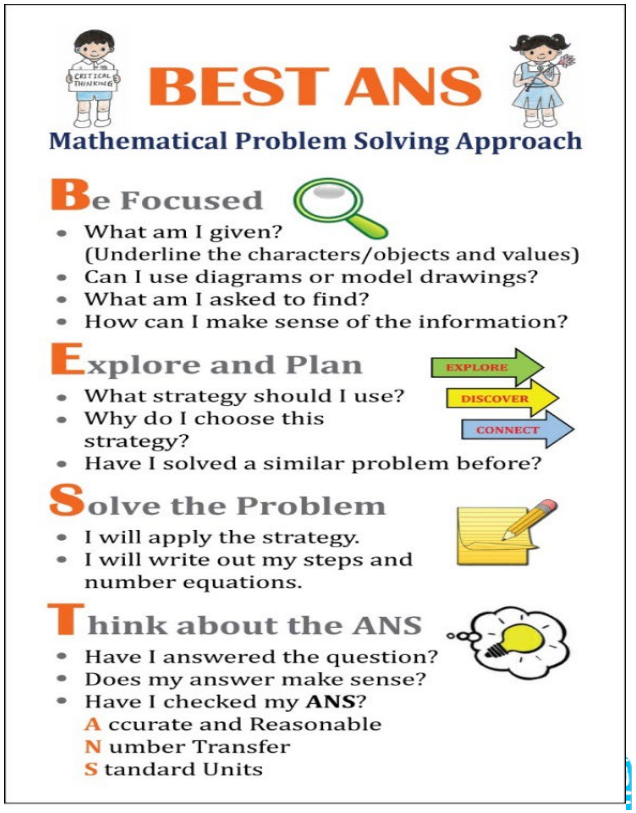
Teachers will use appropriate pedagogical approaches:

- 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

Love to Learn Maths

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P4 Mathematics Assessment [Formative & Summative]

NO Mid-Year Examination

1 Weighted Assessment [WA] / 1 Performance Task [PT]

End-of Year Examination

- ✓ Formative Assessment (FA) strategies [non-weighted] monitor students' progress at different phases of learning during lessons

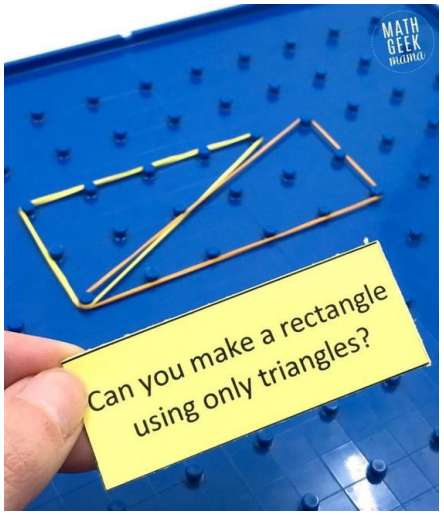
- ✓ Triangulate students' learning from multiple sources of assessment information such as through observation in class, written work, classroom discussion, e-learning, etc.

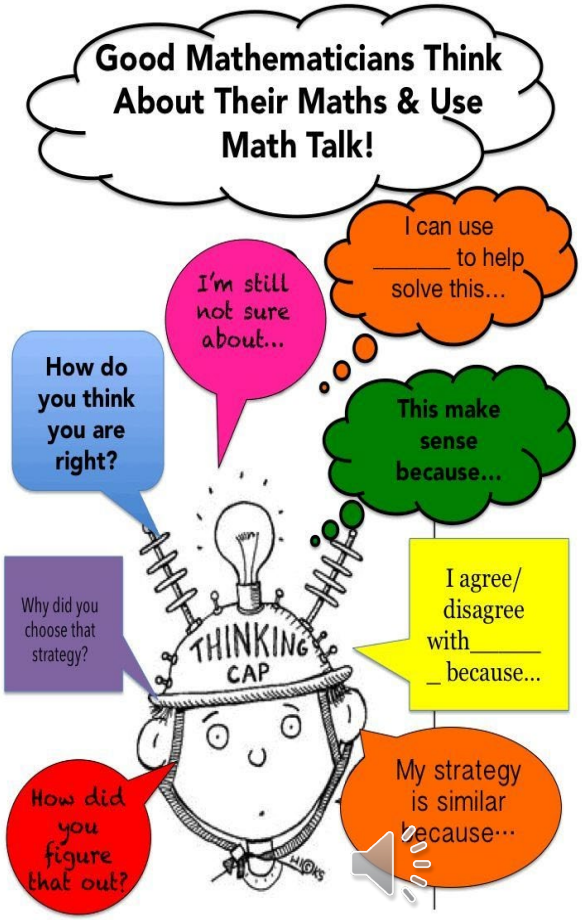
Formative Assessment [FA] to gauge learning

Maths Talk / Class Discussion

Learning experiences

Collaborative Work



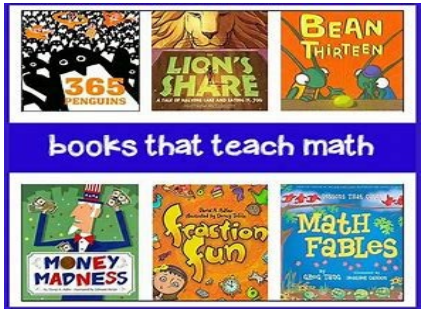


P4 Mathematics School-based Assessment

Components	Weighting	Timeframe
Formative Assessment: Journal Hands-on Activities Review Exercises	**Non-Weighted**	**Whole Year**
Summative Assessment: 1 Weighted Assessment (WA) 1 Performance Task (PT)	 15% 15%	 Term 2 Term 3
End-of-Year Examination	70%	Term 4
Overall	100%	

Level-Specific Programme Highlights

	School-based
1	FunMath@Class Activities
2	ALP – Coding Programme
3	P4 Mathematics Quizzes



Level-Specific Programme Highlights

Mathematics Competitions - Optional

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

Annual Mathlympics

Home-School Partnership

How can parents help?

Please ensure that your child has a good mastery of the **P3** basic concepts and skills:

- ❑ Whole Numbers
- ❑ Fraction
- ❑ Data Analysis
- ❑ Geometry
- ❑ Measurement (Length, Time, Money)
- ❑ Area & Perimeter

(Details can be found in the P3 textbooks)

Parents can help to monitor/reinforce

Pupils should have mastery in:

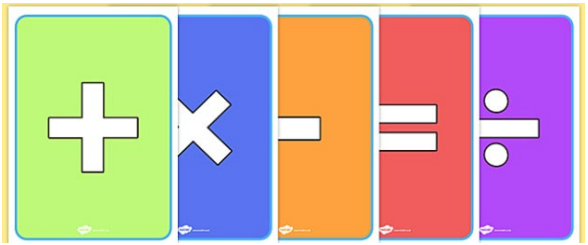
(P3) Addition and Subtraction

- ❑ Addition and subtraction of numbers up to 4 digits
- ❑ Use of the terms ‘sum’ and ‘difference’
- ❑ Solving up to 2-step word problems involving addition and subtraction.

Home-School Partnership

Pupils should have mastery in:

(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

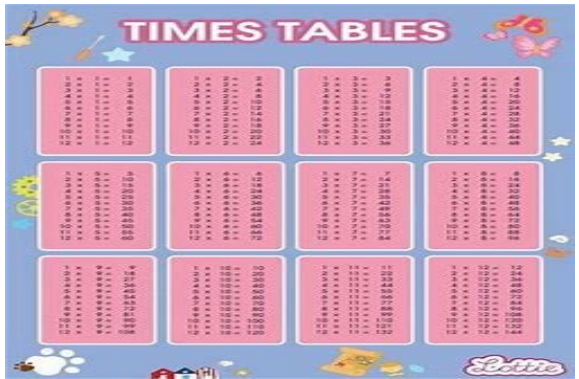
Parents can help to monitor/reinforce

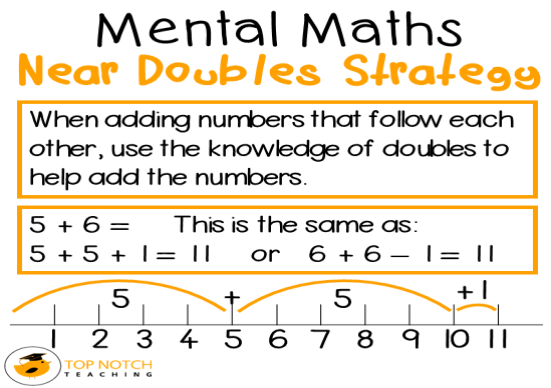
Pupils should have mastery in:

(P3) Mental Calculation

- ❑ Addition and subtraction involving two 2-digit numbers

- ❑ Multiplication and division within the multiplication table





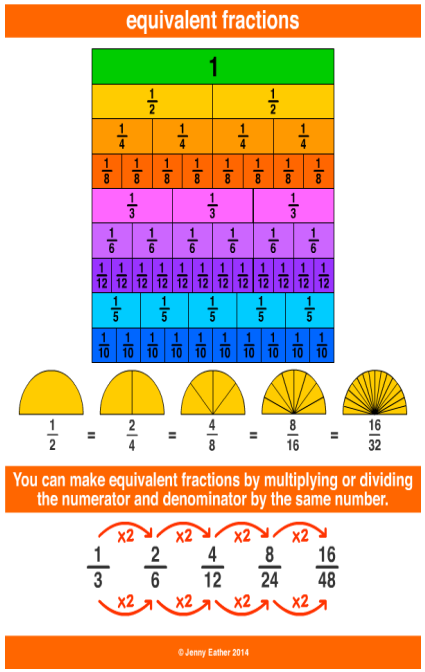
Home-School Partnership

Pupils should have mastery in:

(P3) FRACTIONS

➡ **Equivalent fractions**

- ❑ Recognising and naming equivalent fractions
- ❑ Listing the first 8 equivalent fractions of a given fraction
- ❑ Expressing a fraction in its simplest form
- ❑ Comparing fractions with respect to half
- ❑ Comparing and ordering unlike fractions



➡ **Addition and Subtraction** of fractions

Pupils should have mastery in:

(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
- ❑ 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

Pupils should have mastery in:

(P3) TIME

- ❑ Telling and writing time to 1 minute
- ❑ Use of the terms ‘noon’, ‘a.m. and p.m.’, ‘past’ and ‘to’
  e.g. ’10 minutes past 5’ , ’15 minutes to noon’
- ❑ Measurement of time in hours and minutes
- ❑ Conversion of time in hours and minutes to minutes only, and vice versa
- ❑ Finding the duration of a time interval
- ❑ Finding the starting time/ finishing time
- ❑ Solving word problems involving addition and subtraction of time given in hours and minutes

Pupils should have mastery in:

(P3) MONEY

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

Pupils should have mastery in

(P3) AREA AND PERIMETER

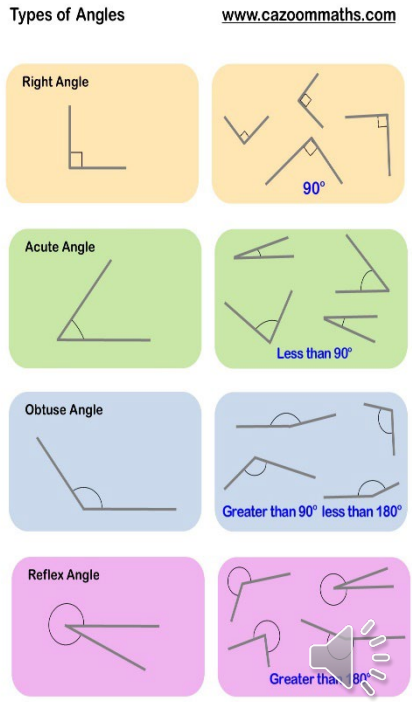
- Concepts of area and perimeter of a plane figure
- Measurement of area in square units
- Measurement of area in square centimetres (cm^2) / square metres (m^2)
- Calculation of the perimeter of rectilinear figures, rectangles, squares
- Use of formula to calculate the area of a rectangle/ square
-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

Home-School Partnership

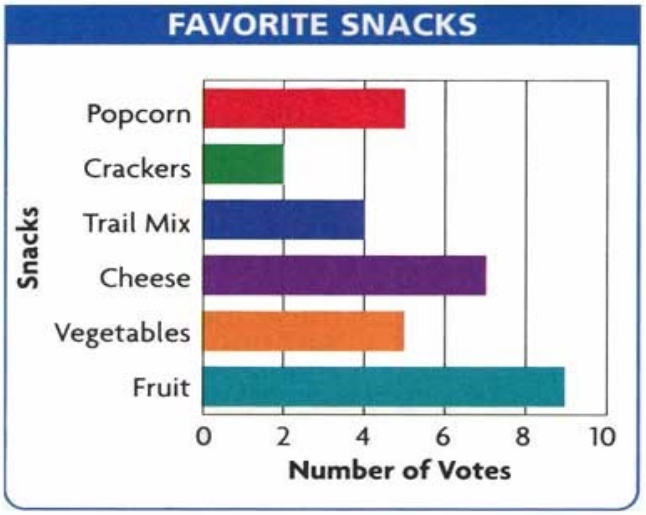
Pupils should have mastery in:

(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
- ❑ Identifying angles in 2-D and 3-D objects
- ❑ Identifying angles in 2-D figures
- ❑ Identifying right angles, angles greater than/ smaller than a right angle



Pupils should have mastery in:



(P3) DATA ANALYSIS

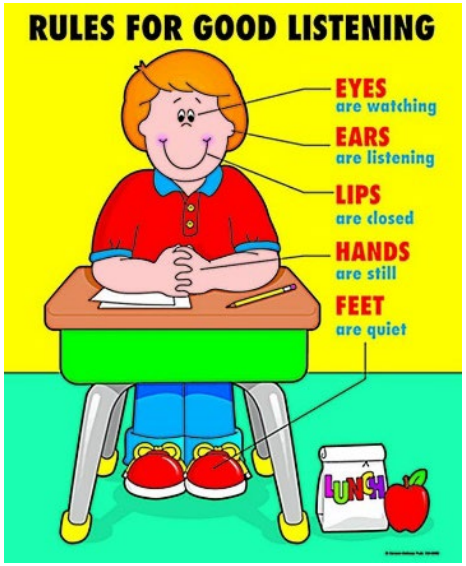
Bar Graphs

- ❑ 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

How can parents help?

Mastery in P3 concepts and skills will enhance your child's success in achieving the learning outcomes for P4 Mathematics.

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*

How can parents help?

- ☑ **Revise concepts and skills learnt in P3, especially the multiplication table**
- ☑ **Does and show you his schoolwork Regularly check your child's books/file**

➡ Books for Primary 4

Primary Maths Textbooks 4A & 4B

Practice Books 4A & 4B

NEW

Enrichment :
Critical Thinking & STRETCH Exercises

*** Keep all P4 books and materials**

for reference in P5/2025 and P6/2026

*Recommended **Optional** Supplementary Materials*
(available from the school bookshop)

Targeting Maths Companion 4A & 4B

STRETCH Mathematics Book 3

My Pals! Testbook 4 & Homework Book 4A & 4B

Amazing Mathematics Book 4A & 4B

+Venture In Maths! Magazine
Subscription:
https://www.add-venture.com.sg

Smart Mathematician Magazine
Subscription:
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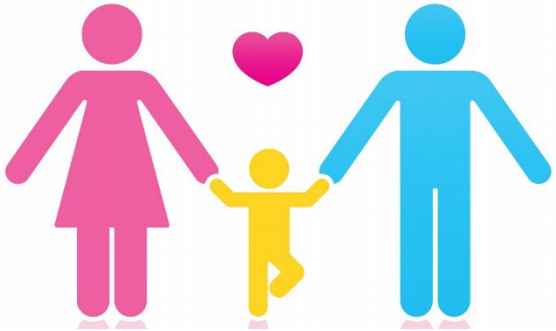
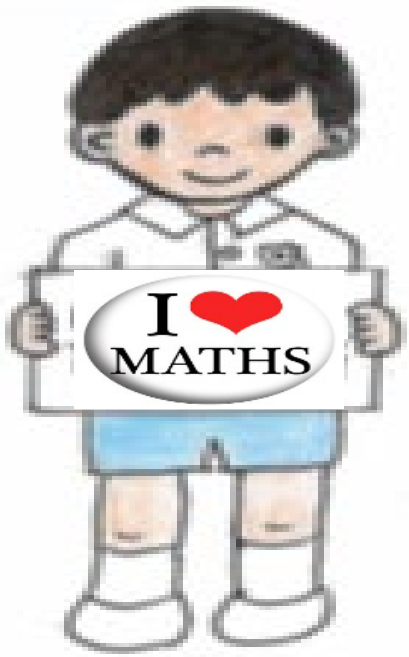


Parents' Support

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 student a Creator, Connector, Contributor