



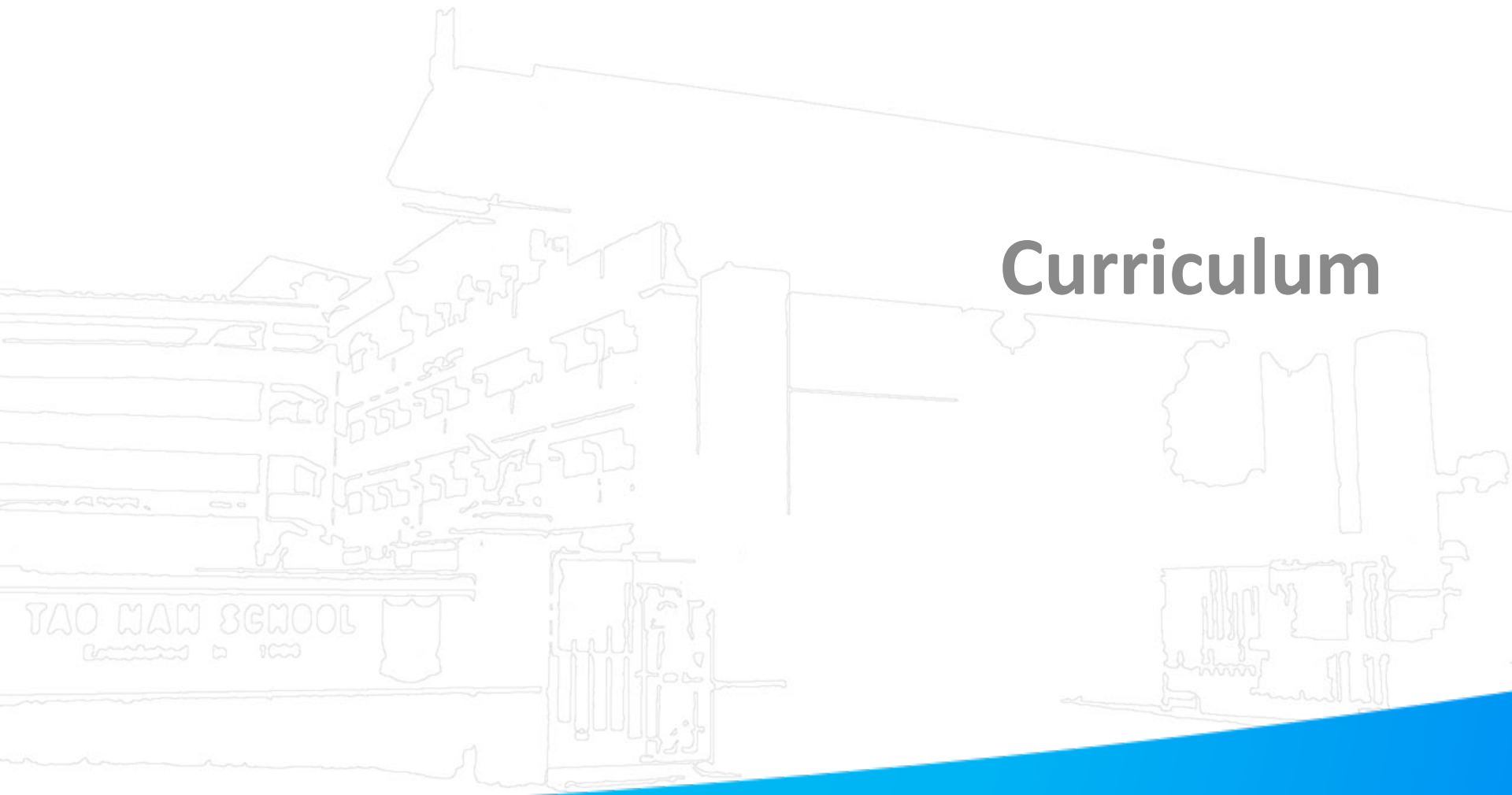
Primary 4 Mathematics Curriculum Information

2023





Curriculum



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.

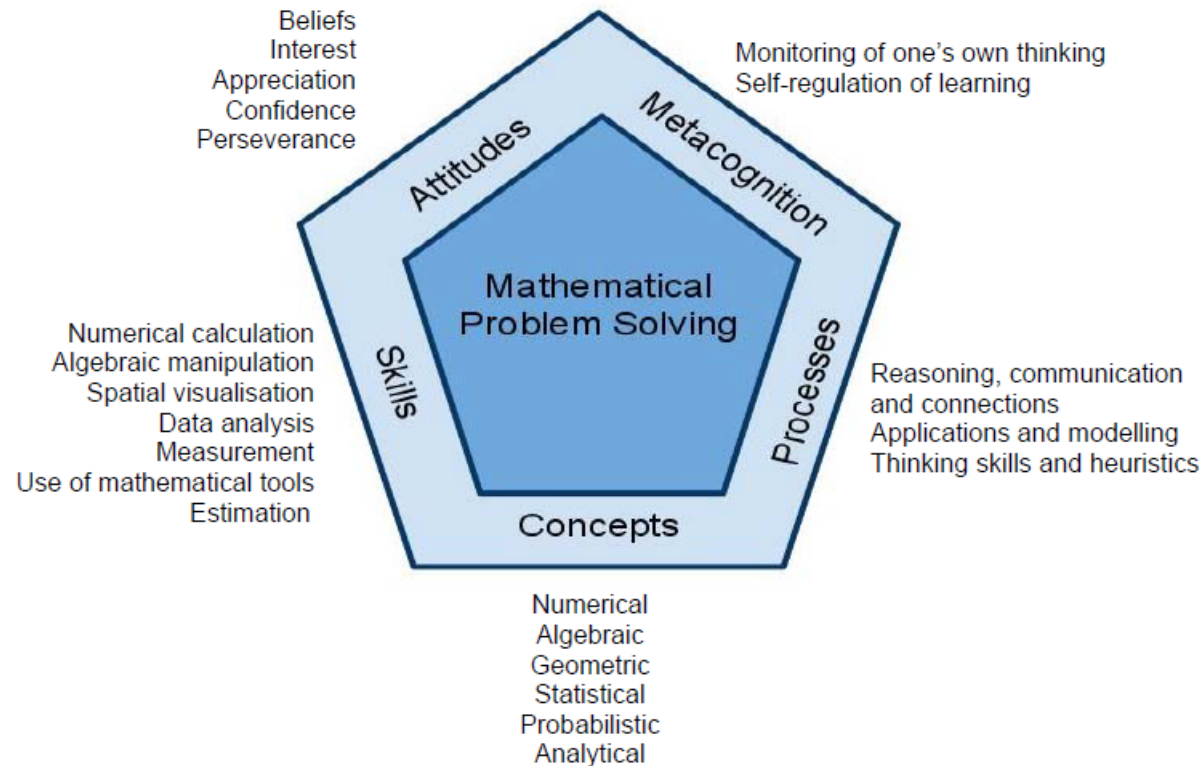


*Love to Learn Maths
Learn to Love Maths*



Mathematics Syllabus

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



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



Pedagogy

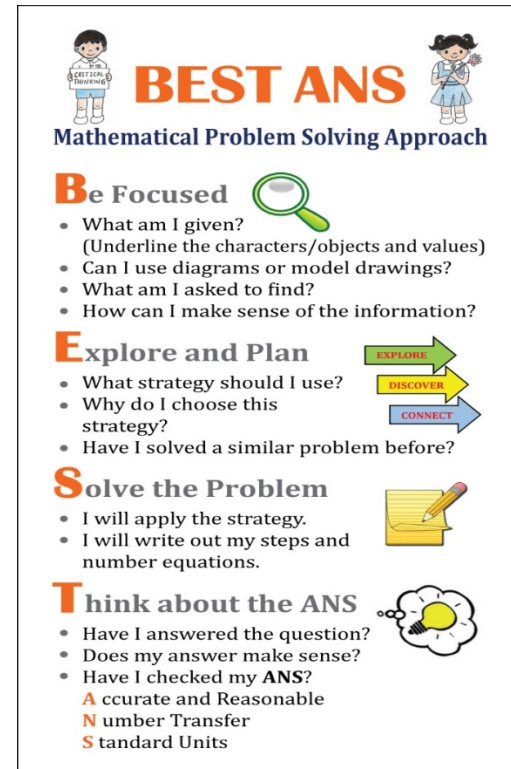


Learner-centred pedagogy

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

- 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

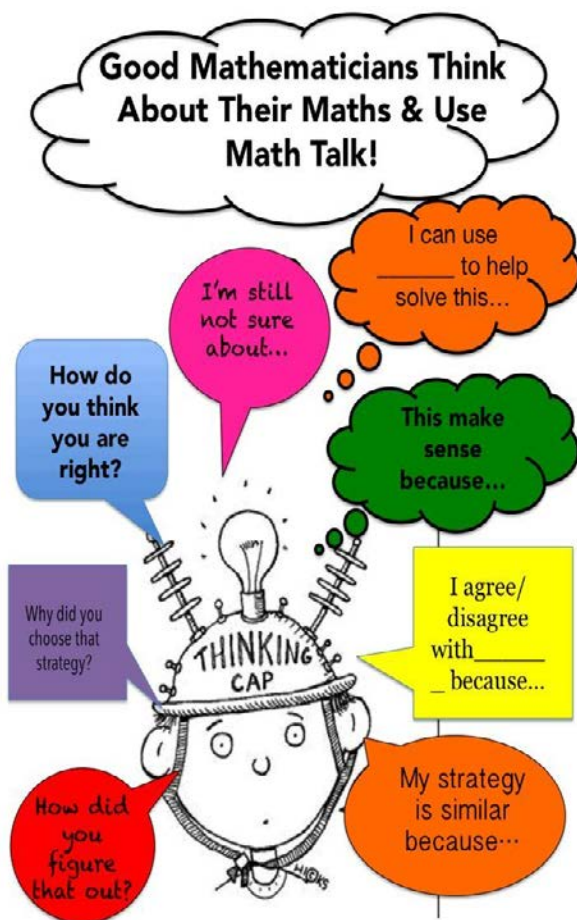


Informal modes of assessment to gauge students' learning

Maths Talk/Class Discussion

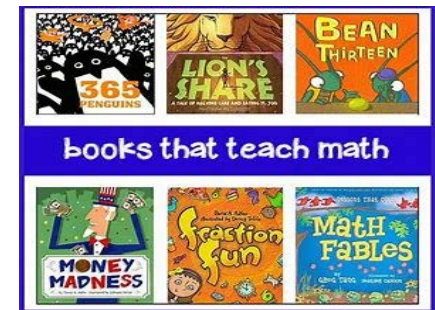
Learning experiences

Collaborative Work



Level-Specific Programme Highlights

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



P4 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 4 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 4

Weighted Assessment: Format

WA1 & WA2	Item-Type	Number of Q
	Short-Answer Questions	15
	Long-Answer Questions	5

Details will be given to your child.



Primary 4

End-of-Year Examination

Paper 1 Duration : 1h

Paper 2 Duration : 1h

MATHEMATICS

PAPER 1

(Booklet A and Booklet B)

Time for Paper 1 is **1 hour**.

Do not open this booklet until you are told to do so.

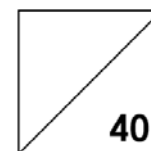
Read and follow all instructions carefully.

Answer all questions.

Booklet A	20
Booklet B	40
Total for Paper 1	60

MATHEMATICS

PAPER 2



INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. The duration for Paper 2 is 1 hour.

Primary 4

Format of End-of-Year Examinations

Item Type		Marks per question	Number of questions	Marks
Paper 1	Multiple Choice Questions	2	10	20
	Short-Answer Questions	2	20	40
Paper 2	Structured/Long-Answer Questions	4	10	40
Total			40	100





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

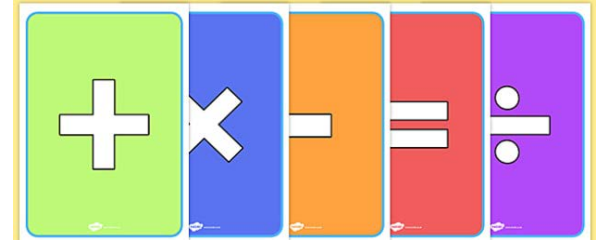
Pupils should have mastery in:

(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.

Pupils should have mastery in:

(P3) Multiplication and Division



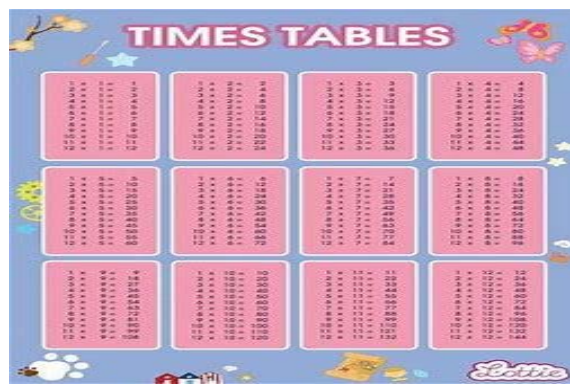
- ☐ Committing to memory the multiplication tables of 6, 7, 8 and 9
- ☐ Use of the terms 'product', 'quotient' and 'remainder'
- ☐ Multiplication and division within the multiplication tables
- ☐ Division with remainder
- ☐ Multiplication and division of numbers up to 3 digits by 1 digit
- ☐ Solving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

Parents can help to monitor/reinforce

Pupils should have mastery in:

(P3) Mental Calculation

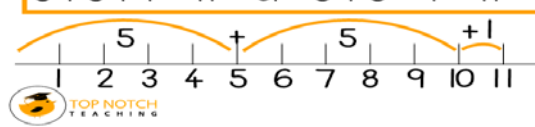
- ❑ Addition and subtraction involving two 2-digit numbers
- ❑ Multiplication and division within the multiplication table



Mental Maths Near Doubles Strategy

When adding numbers that follow each other, use the knowledge of doubles to help add the numbers.

$$5 + 6 = \quad \text{This is the same as:} \\ 5 + 5 + 1 = 11 \quad \text{or} \quad 6 + 6 - 1 = 11$$



Home-School Partnership

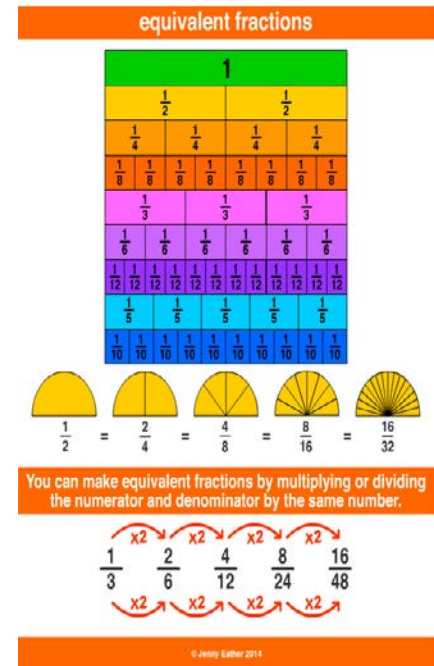
Pupils should have mastery in:

(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

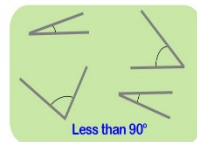
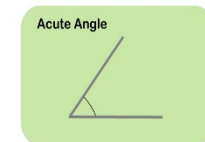
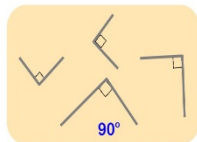
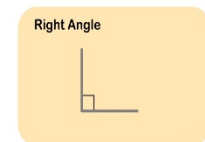
Pupils should have mastery in:

(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

Types of Angles

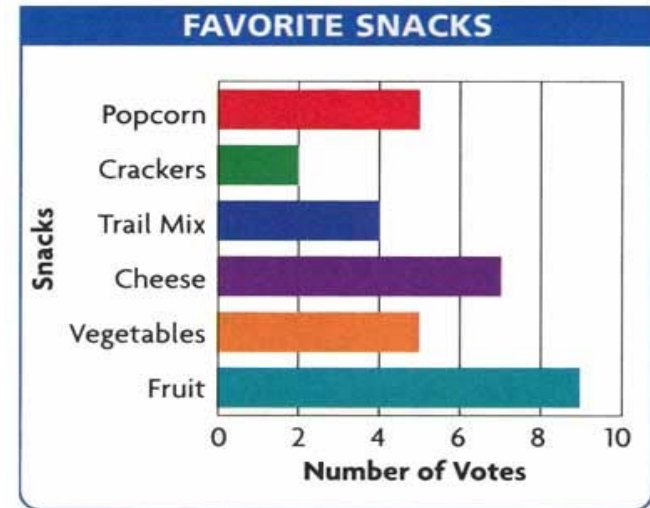
www.cazoommaths.com



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?

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

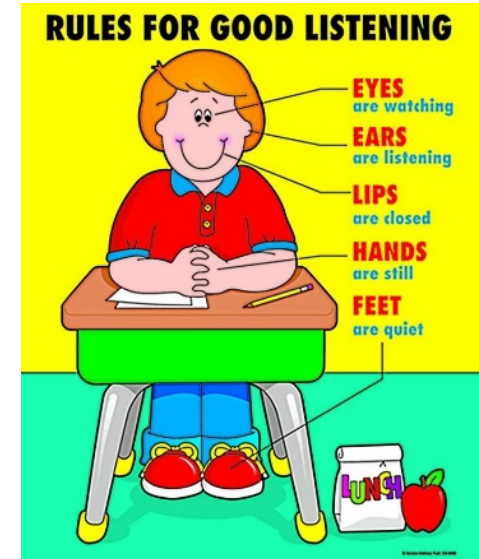
- ☐ Whole Numbers
- ☐ Fraction
- ☐ Data Analysis
- ☐ Geometry
- ☐ Measurement (Length, Time, Money)
- ☐ Area & Perimeter

**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 tables

☑ Does and show you his schoolwork
Regularly check your child's books/file



- ➔ Shaping Maths Workbooks 4A & 4B
- ➔ STRETCH Book 4
- ➔ TNS Critical Thinking Booklet A & B

*** Keep all P4 books and materials**
for reference in P5/2024 and P6/2025



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



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Smart Mathematician Magazine
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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 Children to their
Fullest Potential

