Primary 2
Mathematics
Curriculum Information

2024

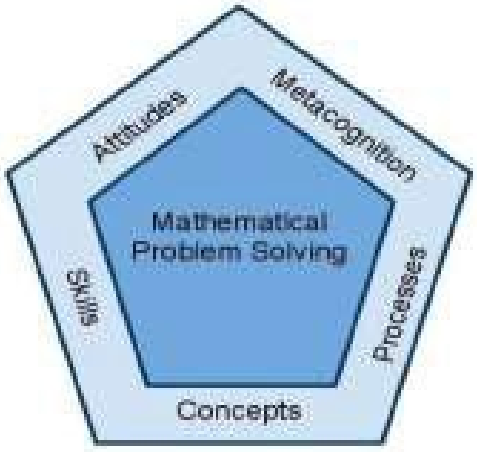
Curriculum

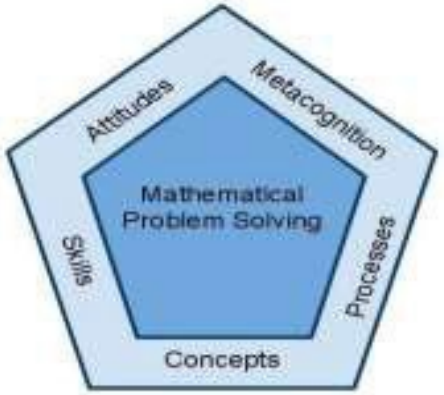
Love to Learn Maths
Learn to Love Maths

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 2 Primary Mathematics Textbooks**.

Pedagogy

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Learner-centred pedagogy

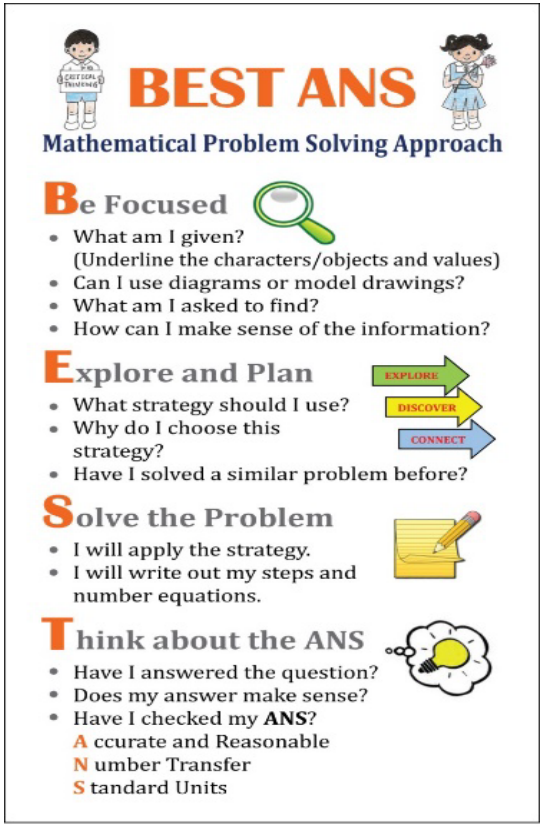
Teachers will use appropriate pedagogical approaches:

- 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 approach

- Provide Critical Thinking exercises to equip students with problem solving heuristics



Assessment

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P2 Mathematics Assessment for Holistic Development

NO Mid-Year or End-of-Year Examinations

3 Bite-sized Reviews/ Performance Tasks

- ✓ Assess 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/ Maths Talk, Journal, Mental Sums, e-learning, etc.

- ✓ Use of learning outcomes (LOs) to give feedback to parents on students' learning progress

- Report of child's **attainment level of LOs** at the end of Semester 1 and Semester 2

- Use **3 levels of qualitative descriptors** to determine the level of attainment
  - *Developing, Competent, Accomplished*

P2 Learning Outcomes

1. Understand numbers up to thousand.
2. Solve mathematical problems involving addition and subtraction.
3. Multiply and divide numbers within multiplication tables.
4. Identify, name, describe and sort shapes and objects.
5. Tell time to 5 minutes.
6. Compare and order objects by length, mass, or volume.
7. Read and interpret picture graphs with scales.
8. Understand fractions.

Qualitative Descriptors for Learning Outcomes

Example

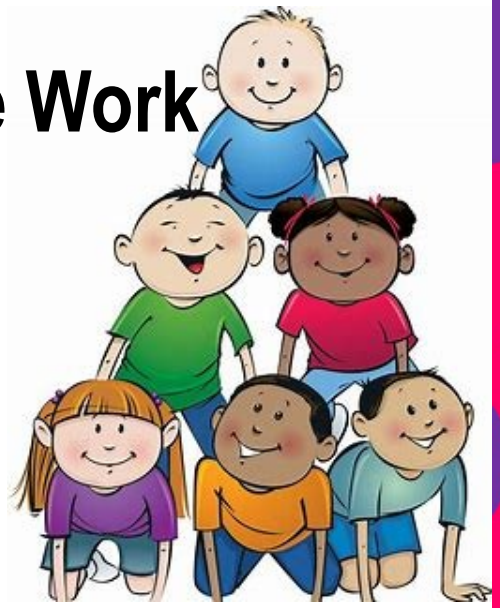
	Learning Outcome	Qualitative Descriptors		
		Developing	Competent	Accomplished
1	**Understand numbers up to thousand.**		✓	
2	**Tell time to 5 minutes**	✓		

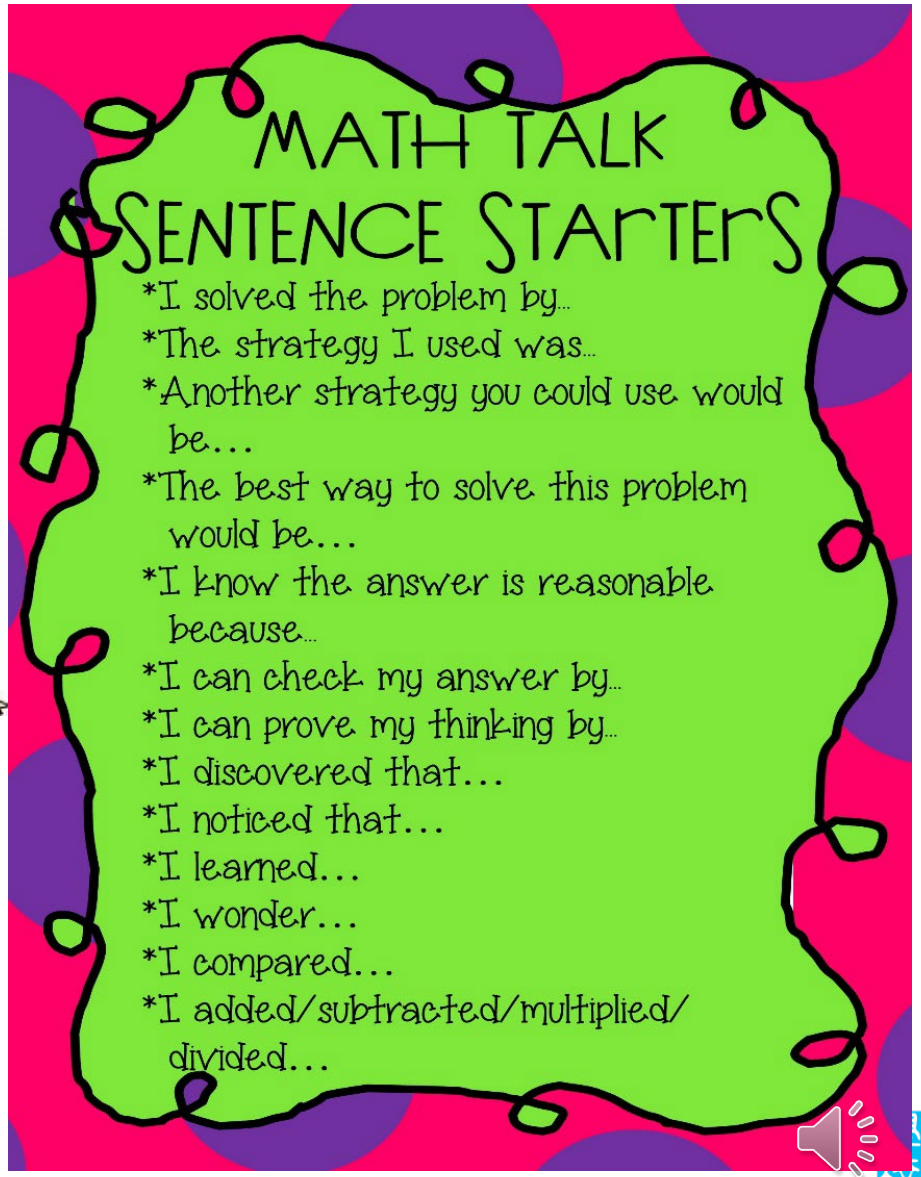
Formative Assessment [FA] to gauge learning

Learning experiences

Collaborative Work

Maths Talk





Formative Assessment [FA] to gauge learning

Mental Sums

Class observation of pupils' mental calculation ability in **Oral Maths and Mental Calculation Exercises**

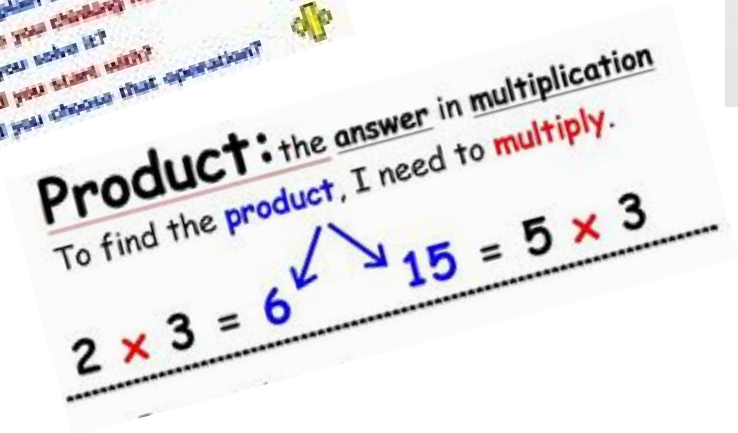
Examples

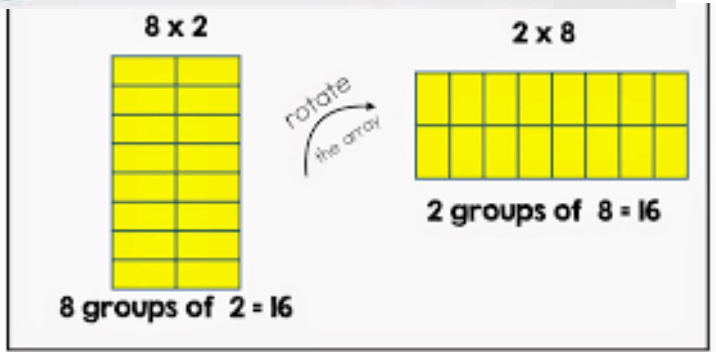
- Addition and subtraction involving 2-digit numbers
- Multiplication : 5 groups of 2
- 10 more than 9 is 19
- 1 less than 10 is 9
- 16 is ten more than 6

Formative Assessment [FA] to gauge learning

Journal and Maths Communication

Your child's ability to express understanding through representation, diagrams, mathematical terms, verbal and written communication, etc.





Home-School Partnership

Home-School Partnership

*Parents can help to **reinforce concepts learnt in Primary 1**:*

WHOLE NUMBERS : Numbers up to 100

- ❑ Counting to tell the number of objects in a given set
- ❒ Comparing the number of objects in two or more sets
- ❒ Use of ordinal numbers (first, second, up to tenth) and symbols (1^{st} , 2^{nd} , 3^{rd} , 4^{th} , etc.)

Home-School Partnership

*Parents can help to **reinforce concepts learnt in Primary 1**:*

WHOLE NUMBERS : Numbers up to 100

- ❑ Number notation and place values (tens, ones)
- ❒ Reading and writing numbers in numerals and in words
- ❒ Comparing and ordering numbers
- ❒ Number patterns

Home-School Partnership

*Parents can help to **reinforce concepts learnt in Primary 1**:*

Concepts of Addition and Subtraction

- ❒ Use of the addition symbol (+) or subtraction symbol (−) to write a mathematical statement for a given situation
- ❒ Comparing two numbers within 20 to tell how much one number is greater (or smaller) than the other
- ❒ Recognising the relationship between addition and subtraction
- ❒ Building up the addition bonds up to 9 + 9 and committing to memory

Home-School Partnership

*Parents can help to **reinforce concepts learnt in Primary 1**:*

Concepts of Addition and Subtraction

- Addition of more than two 1-digit numbers
- Addition and subtraction within 100 involving
  - a 2-digit number and ones
  - a 2-digit number and tens
  - two 2-digit numbers
- Addition and subtraction using formal algorithms

Home-School Partnership

*Parents can help to **reinforce concepts learnt in Primary 1**:*

Multiplication

- ❒ Multiplication as repeated addition (within 40)

- ❒ Use of the multiplication symbol (×) to write a mathematical statement for a given situation

- ❒ Division of a quantity (not greater than 20) into equal sets:
  - ∗ given the number of objects in each set/group
  - ∗ given the number of sets/groups

- ❒ Solving 1-step word problems with pictorial representation

Home-School Partnership

*Parents can help to **reinforce concepts learnt in Primary 1**:*

Length

- Measurement and comparison of the lengths of two or more objects in non-standard units

- Use of the following terms:
  - long, longer, longest
  - short, shorter, shortest
  - tall, taller, tallest
  - high, higher, highest

Home-School Partnership

*Parents can help to **reinforce concepts learnt in Primary 1**:*

Time

- ❒ Telling and writing time to the hour/ half hour / quarter hour

*Parents can help to r**einforce concepts learnt in Primary 1**:*

Money

- ❒ Identifying coins and notes of different denomination
- ❒ Matching a coin/ note of one denomination to an equivalent set of coins/ notes of another denomination
- ❒ Telling the amount of money
- ❒ Use of the symbols $ and ¢
- ❒ Solving word problems involving addition and subtraction of money in dollars only (or in cents only)

Home-School Partnership

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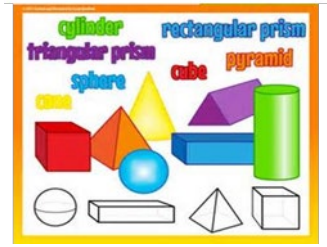


Geometry

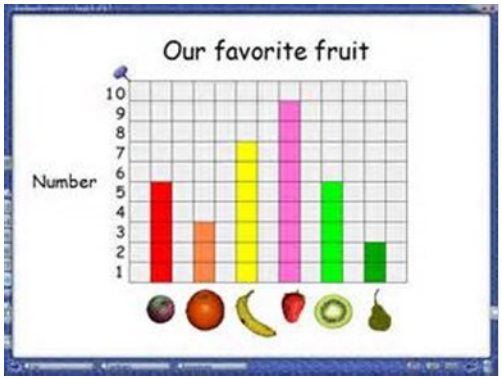
- ❒ Basic shapes: rectangle, square, circle, triangle
- ❒ Identifying and naming the 4 basic shapes from 2-D and 3-D objects
- ❒ Describing and classifying shapes
- ❒ Patterns: making/ completing patterns with 2-D cut-outs according to one or two of the following attributes
  - ∗ shape
  - ∗ size
  - ∗ colour
- ❒ Making/completing patterns with 3-D models:
  - ∗ cube ∗ cuboid (rectangular block) ∗ cone ∗ cylinder

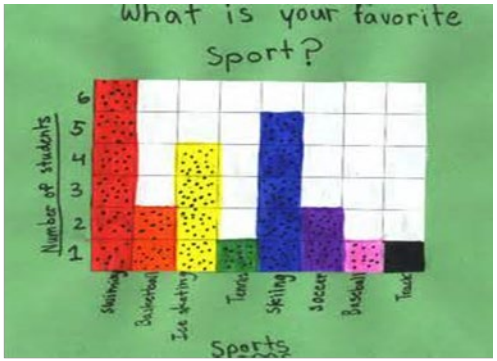
Home-School Partnership

*Parents can help to **reinforce concepts learnt in Primary 1**:*

Statistics : Data Analysis

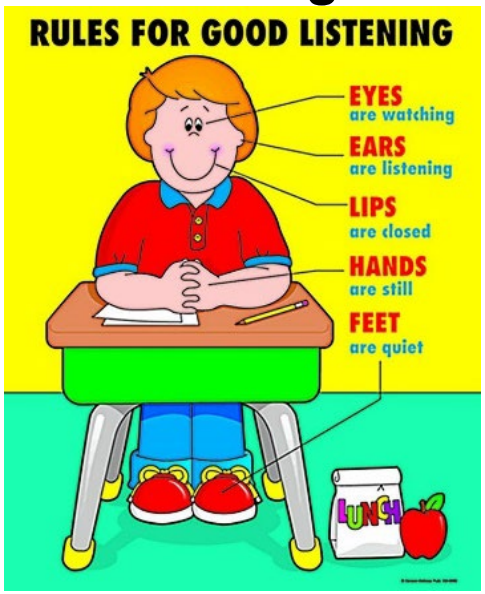
- ❒ Collecting and organising data
- ❒ Making picture graphs
- ❒ Use of a symbol/picture to represent one object
- ❒ Reading and interpreting picture graphs in both horizontal and vertical forms





Home-School Partnership

Instill in your child good habits to maximize learning



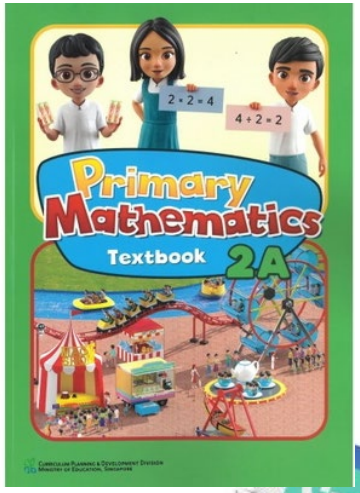
- ☑ Behave, Focus and Participate
- ☑ Listen and Speak at appropriate times
- ☑ Be organized
- ☑ Good handwriting
- ☑ *Necessary stationery (pencil, ruler, eraser, sharpener)*
  [No need fanciful stationery that can distract]

Books for Primary 2

Primary Mathematics Textbooks 2A & 2B

Practice books 2A & 2B (Parts 1 & 2)

Enrichment :
Critical Thinking & STRETCH Exercises



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

Optional *Supplementary Materials*

(available from the School Bookshop)

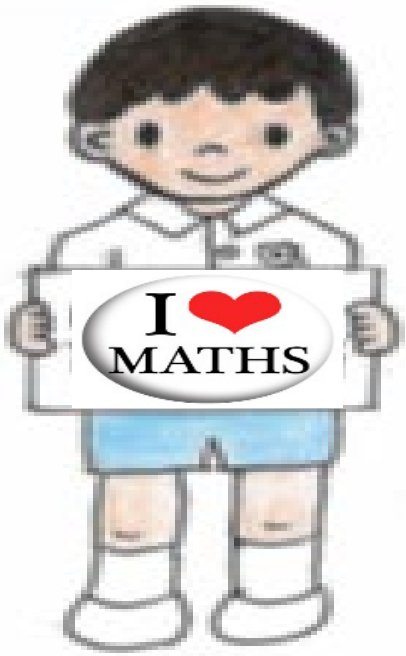
Targeting Maths Companion 2A and 2B

My Pals! Test Book 2, Homework Book 2A and 2B

+Venture In Maths! Magazine

Subscription:

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



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