



# Primary Mathematics

## Curriculum Content

Based on the **Singapore National Curriculum**, our school's mathematics program has a comprehensive and rigorous coverage. Mathematical experiences are taught in steps, each in turn lay the foundation for the next. The curriculum is taught from a base of concrete experience, with an intention to build relationship between mathematical objects and ideas constructed in the mind of the learner. In the early years, manipulation of concrete materials provides the foundation upon which children can actively build mathematical ideas. At all level, teachers draw on students' knowledge of the world to ensure that abstract ideas are linked to something familiar.

The approaches to teaching and learning in mathematics is characterised by the following:

1. Teaching from a base of concrete experience
2. Recognising mathematics as abstract and general
3. Using a variety of modes of classroom activities
4. Emphasising applications
5. Recognising individual differences and different learning styles and needs

**The mathematics curriculum is divided into four main strands:**

1. **Space** – shape and space, colour, location, use of language for space, use of information and communication technology.
2. **Number** – numbers, counting and numeration, mental computation, and estimation, place values, number computation and relationship (addition, subtraction, multiplication and division) and applying number, number patterns.
3. **Measurement and Data** – Measuring and estimation of length, mass, capacity, time, area, volume, relationships between attributes such as dimensions, area, volume, time, distance, mass, classify events as certain, possible, impossible, likely or unlikely.
4. **Reasoning and Strategies** – mathematical reasoning through use of logical arguments and proofs, exploring problems which are initially unfamiliar using mathematical strategies by acting out and using materials or other means to represent a situation, mathematical modeling and simplifying the assumptions.

### Affiliations





### Mathematics Curriculum by Grade Level

Class	Topics	Class	Topics
<b>Year 1</b>	Number 0 to 10	<b>Year 2</b>	Numbers to 1000
	Number Bonds		Addition and Subtraction Within 1000
	Addition		Length
	Subtraction		Mass
	Ordinal Numbers		Multiplication and Division
	Numbers to 20		Multiplication Tables of 2 and 3
	Shapes		Addition and Subtraction
	Length		Money
	Mass		Fractions
	Comparing Numbers		Time
	Numbers to 100		Volume
	Addition and Subtraction within 100		Geometry
	Multiplication		Graph
	Division		
Time			
Money			
Graphs			
<b>Year 3</b>	Numbers to 10000	<b>Year 4</b>	Whole Numbers
	Addition and Subtraction Within 10000		Multiplication and Division of Whole Numbers
	Multiplication Tables		Fractions
	Multiplication and Division		Tables and Graphs
	Money		Angles
	Mental Calculation		Perpendicular and Parallel Lines
	Length		Geometrical Figures
	Mass		Area and Perimeter
	Volume		Decimals
	Graphs		The Four Operations of Decimals
	Fractions		Measures
	Time		Symmetry
	Geometry		Solid Figures
	Perimeter and Area		Volume
<b>Year 5</b>	Whole Numbers	<b>Year 6</b>	Algebra
	Multiplication and Division by 2-Digit Whole Number		Ratio
	Fractions		Percentage
	Area of Triangle		Speed
	Ratio		Area and Circumference of Circles
	Angles		Graphs
	Decimals		Volume
	Percentage		Triangles and 4-Sided Figures
	Average		Fractions
	Rate		Decimals
	Graphs		Average
	Triangles		
	Four-Sided Figures		
	Tessellations		
Volume			

#### Affiliations

