

VI. Suggested Learning Objectives of Enrichment Topics

Level	Units	Learning Objectives
Dimension : Number		
P.1	1N-E1 Stories of ancient counting methods	1. Introduce ancient counting methods.
Dimension : Measures		
P.2	2M-E1 Stories of ancient time-recording and timing devices	1. Recognize ancient time-measuring methods. 2. Recognize ancient timing devices. 3. Understand the need for using standard units in measuring time.
Dimension : Number		
P.3	3N-E1 Computation using Chinese abacus	1. Record numbers with Chinese abacus. 2. Perform addition and subtraction using Chinese abacus.
Dimension : Data Handling		
P.3	3D-E1 Stem-and-leaf diagrams	1. Read and discuss stem-and-leaf diagrams. 2. Construct stem-and-leaf diagrams.
Dimension : Number		
P.4	4N-E1 Divisibility	1. Recognize divisibility, divisibility tests for 3 , 4 , 6 , 8 , 9 and 11.
	4N-E2 Prime numbers and composite numbers	1. Recognize prime numbers and composite numbers. 2. Find prime numbers within 100 by the Sieve of Eratosthenes.
Dimension: Shape and Space		
P.4	4S-E1 Tessellation	1. Recognize 2-D shapes that can be tessellated. 2. Design tile patterns with 2-D shapes that can be tessellated.
Dimension : Number		
P.5	5N-E1 Ancient numerals	1. Recognize ancient Chinese numerals and their notation. 2. Recognize Roman numerals and their notation. 3. Discuss the advantages of using Hindu-Arabic numerals.

Level	Units	Learning Objectives
Dimension : Number		
P.5	5N-E2 Recurring decimals	1. Develop an understanding of recurring decimals.
Dimension : Shape and Space		
P.5	5S-E1 Rotational symmetry	1. Recognize rotational symmetry. 2. Make rotationally symmetric figures.
Dimension : Measures		
P.5	5M-E1 Angle (degree)	1. Recognize 'degree' ($^{\circ}$). 2. Measure angles up to 360° using a protractor. 3. Draw angles of given sizes using a protractor.
Dimension : Number		
P.6	6N-E1 Squares and square roots	1. Develop an understanding of squares and square roots. 2. Find the square of a number. 3. Find square roots by inspection.
Dimension : Shape and Space		
P.6	6S-E1 Curve stitching	1. Appreciate samples of curve stitching. 2. Make curve stitching patterns.
	6S-E2 Making pyramids	1. Explore and design nets of pyramids. 2. Make pyramids.
Dimension : Data Handling		
P.6	6D-E1 Chance	1. Acquire an elementary experience of the chance of happening of an event. 2. Describe the chance of happening of an event using the following phrases: i. certain ii. often iii. sometimes iv. seldom v. impossible
Dimension : Algebra		
P.6	6A-E1 Number patterns	1. Recognize simple number patterns such as square numbers and triangular numbers. 2. Recognize and appreciate other simple number patterns.