

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. |

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| 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. |