

Appendix 5

Examples of Learning Dimensions

Hong Kong

- 5 dimensions in the Primary Mathematics Syllabus: Number; Algebra; Measures; Shape and Space; and Data Handling
- 3 combined dimensions in the proposed revised Secondary Mathematics Syllabus: Number and Algebra; Measures, Shape and Space; and Data Handling
- 4 stems in the Unofficial Mathematics Curriculum (designed by Mr. FUNG Chun-ip, HKIEd and Dr. WONG Ngai-ying, CUHK in December 1997): Numbers and Symbol Manipulation; Shape and Space; Measurement; and Handling Information

Australia

- 6 strands in the Australian mathematics curriculum: Working Mathematically; Space; Number; Measurement; Chance and Data; and Algebra

The United States

- 5 content strands, 3 mathematical abilities and 3 mathematical power together form a 3-dimensional structure in the US Department of Education's mathematics framework for the national assessment of educational progress:
 - 5 content strands: Number Sense, Properties and Operations; Measurement; Geometry and Spatial Sense; Data Analysis, Statistics and Probability; and Algebra and Functions
 - 3 mathematical abilities: Conceptual Understanding; Procedural Knowledge; and Problem Solving
 - 3 mathematical power: Reasoning; Connections; and Communication

United Kingdom

- 4 attainment targets in mathematics in the UK national curriculum: Using and Applying Mathematics; Number and Algebra; Shape, Space and Measures; and Handling Data