

Chapter 2

Aims and Objectives

I. Aims

The primary mathematics curriculum aims to:

1. stimulate the interest of pupils in the learning of mathematics;
2. develop pupils' understanding and acquisition of basic mathematical concepts and computational skills;
3. develop pupils' creativity, and their ability to think, communicate and solve problems;
4. develop pupils' number sense and spatial sense, and their ability to appreciate patterns and structures of number and shapes;
5. enhance pupils' lifelong learning abilities through basic mathematical knowledge.

II. Objectives

1. Knowledge

To assist pupils to understand and master the basic knowledge of the following dimensions:

1. Number
2. Shape and Space
3. Measures
4. Data Handling
5. Algebra

2. Skills

To assist pupils to develop the following skills:

1. basic computation in whole numbers, fractions, decimals and percentages, including mental and paper-and-pencil calculation;
2. exploring the patterns and structures of numbers and shapes;
3. basic strategies for estimating the answers and measures;
4. number sense and spatial sense;
5. collecting and analyzing data;
6. learning to observe, analyse, reason and make judgments;
7. communicating with mathematical language;
8. formulating and solving problems;
9. using modern technology to learn mathematics.

3. Attitudes

To assist pupils to foster the following attitudes:

1. interest in learning mathematics;
2. appreciation of patterns and structures of numbers and shapes;
3. confidence in learning and applying mathematical knowledge;
4. independent thinking and persistence in solving problems;
5. willing to collaborate with others and value others' contribution;
6. calculating with care and evaluating one's own work.