

### **Curriculum Aims of Mathematics Education KLA**

The general aims of mathematics curriculum are as follows:

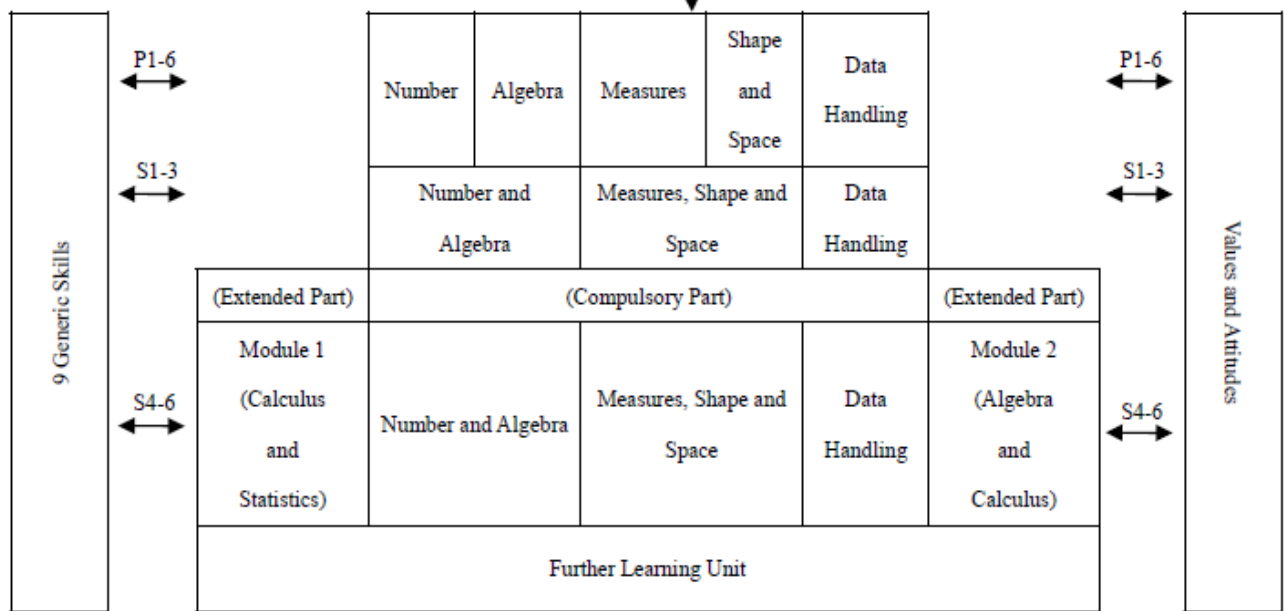
To enable students to cope confidently with the mathematics needed in their future studies, workplaces or daily life in a technological and information-rich society, so that each student is ready for lifelong learning, the mathematics curriculum aims at developing in students:

- (a) the ability to think critically and creatively, to conceptualize, inquire and reason mathematically, and to use mathematics to formulate and solve problems in daily life as well as in mathematical contexts and other disciplines;
- (b) the ability to communicate with others and express their views clearly and logically in mathematical language;
- (c) the ability to manipulate numbers, symbols and other mathematical objects;
- (d) number sense, symbol sense, spatial sense and a sense of measurement as well as the capability of appreciating structures and patterns;
- (e) a positive attitude towards mathematics learning and the capability of appreciating the aesthetic nature and cultural aspect of mathematics.

## Diagrammatic Representation of the Framework of the Mathematics Curriculum

**Mathematics Curriculum**  
provides content knowledge which can serve as a means to develop students' thinking abilities and foster students' generic skills and positive attitudes towards mathematics learning

**Strands**  
provide a structured framework of learning objectives in different areas of the Mathematics Curriculum



Effective linkage of learning, teaching and assessment

Overall Aims and Learning Targets of Mathematics