



# ST. FRANCIS METHODIST SCHOOL

*Possibilities to Realities*

## Curriculum Description for Singapore-Cambridge GCE 'O' Level

### **GCE Ordinary Level Mathematics (4017)**

The course aims to enable students to develop mathematical language as a means of communication; acquire a foundation appropriate to a further study of Mathematics and skills and knowledge pertinent to other disciplines; acquire and apply skills and knowledge relating to number, measure and space in mathematical situations that they will meet in life; develop an understanding of mathematical principles and the abilities to reason logically; conduct individual and co-operative enquiry and experiment, including extended pieces of work of a practical and investigative kind; integrate information technology to enhance the mathematical experience; engage in imaginative and creative work arising from mathematical ideas; enhance their intellectual curiosity and appreciate the power and structure of Mathematics including patterns and relationships; develop a positive attitude towards mathematics, including confidence, enjoyment and perseverance; and appreciate the interdependence between different branches of Mathematics.

### **Examination**

#### **Scheme of Papers**

<i>Component</i>	<i>Time Allocation</i>	<i>Type</i>	<i>Maximum Mark</i>	<i>Weighting</i>
Paper 1	2 hours	Short answer questions testing on the fundamental skills and concepts.	80	50%
Paper 2	2½ hours	Questions testing on the higher order thinking skills.	100	50%

1. Paper 1 will consist of about 25 short answer questions. Candidates are required to answer all the questions. Paper 2 will consist of 2 sections. Section A will contain 9 to 10 questions with no choice. Section B will contain 2 questions of which candidates will be required to answer only one. Each choice carries the same number of marks, that is, between 10 to 12 marks.
2. Candidates are expected to cover the whole syllabus. Each paper may contain questions on any part of the syllabus and questions will not necessarily be restricted to a single topic.
3. Scientific calculators are allowed in Paper 2 but not in Paper 1.
4. Candidates should also have geometrical instruments with them for Paper 1 and Paper 2.
5. SI units will be used in questions involving mass and measures.

Please refer to the SEAB website for more information regarding this course.  
<http://www.seab.gov.sg>

*Note: 4017 will be replaced by 4016 in 2008.*