



Enseignement secondaire		
Classes internationales		
	Régime anglophone	
Mathématiques HL		
Programme		
2IB et 1IB		

  

Leçons hebdomadaires : 5		
Langue véhiculaire : anglais		
Nombre minimal de devoirs par semestre : 3		

## Description

This course caters for students with a good background in mathematics who are competent in a range of analytical and technical skills. The majority of these students will be expecting to include mathematics as a major component of their university studies, either as a subject in its own right or within courses such as physics, engineering and technology. Others may take this subject because they have a strong interest in mathematics and enjoy meeting its challenges and engaging with its problems.

(Reference: IB Mathematics guide)

## Pre-Requisites

Mathematical skills relating to Algebra, Geometry and Statistics, as required for admission into IB Diploma Program. Students are expected to be equipped with the skills needed to apply basic mathematical techniques correctly.

## Skills and objectives

To allow students

- To develop an appreciation of the relevance and usefulness of mathematics in other disciplines.
- To prepare for university studies requiring a sound mathematical knowledge.
- To acquire the mathematical skills required in logical, analytical and critical thinking.
- To develop the initiative in the investigation of new problems and in applying acquired knowledge to the latter.
- To apply the acquired mathematical knowledge to solve realistic problems in a variety of contexts.



## Course components

- Algebra
- Functions and equations
- Circular functions and trigonometry
- Vectors
- Statistics and probability
- Calculus

(Reference: IB Mathematics guide)

## Assessments

- External IB assessment: (accounting for 80% of final grade) consisting in 2 Papers of 120 minutes each and 1 Paper of 60 minutes at the end of the 2-year term.
- Internal assessment: (accounting for 20% of final grade) the students must present an individual exploration. This is a piece of written work that involves investigating an area of mathematics.
- The students will submit to a minimum of 3 formative papers each semester in order to monitor their progress.

## Textbook

Mathematics Core Topics HL 1 – Haese Mathematics

ISBN: 978-1-925489-58-3

Mathematics Analysis and Approaches HL 2 – Haese Mathematics

ISBN: 978-1-925489-59-0

## Calculator

Texas Instruments TI-Nspire CX II CAS