



Enseignement secondaire		
Classes internationales		
	Régime anglophone	
Physique		
Programme		
2IB et 1IB		

Leçons hebdomadaires: Standard level: 3 High level: 5
Langue véhiculaire: anglais
Nombre minimal de devoirs par trimestre: 1

Syllabus for Physics 2IB + 1IB

Theory

Remarks:

- Topics with content that should be taught to all students
- Topics with content that should be taught to all students plus additional HL content
- Topics with content that should only be taught to HL students

	Core Topics	Contents	Remarks
	General skills	Measurements in physics Uncertainties and errors Vectors and scalars	• • •
A	Space time and motion	Kinematics Forces and momentum Work, energy and power Rigid body mechanics Galilean and special relativity	• • • ••• •••
B	The particulate nature of matter	Thermal energy transfers Greenhouse effect Gas laws Thermodynamics Current and circuits	• • • ••• •



C	Wave behaviour	Simple harmonic motion Wave model Wave phenomena Standing waves and resonance Doppler effect	•• • •• • ••
D	Fields	Gravitational fields Electric and magnetic fields Motion in electromagnetic fields Induction	•• •• • •••
E	Nuclear and quantum physics	Structure of the atom Quantum physics Radioactive decay Fission Fusion and stars	•• ••• •• • •

General information:

- The contents of syllabus are fixed by the IB organisation.
- The syllabus for classes 12 and 13 cannot be separated into 2 entities, the diploma programme covering 2 years and there being no prescribed chronological order.
- The course comprises experiments, simulations, and use of ICT.
- Students have to perform a personal project counting 20% of their final mark in the exam.
- It is advised to do the personal project experiments during year 12 before the summer break leading to year 13.
- Students write 3 exam papers (one of which is a multiple choice paper) counting for a total of 80% of the exam mark.