

Syllabus overview

The syllabus for the Diploma Programme physics course is divided into three parts: the core, the AHL material and the options. The *Physics data booklet* is an integral part of the syllabus and should be used in conjunction with the syllabus. Students should use the data booklet during the course, and they should be issued with clean copies for papers 1, 2 and 3 in the examination.

	Teaching hours
Core	80
Topic 1: Physics and physical measurement	5
Topic 2: Mechanics	17
Topic 3: Thermal physics	7
Topic 4: Oscillations and waves	10
Topic 5: Electric currents	7
Topic 6: Fields and forces	7
Topic 7: Atomic and nuclear physics	9
Topic 8: Energy, power and climate change	18
AHL	55
Topic 9: Motion in fields	8
Topic 10: Thermal physics	6
Topic 11: Wave phenomena	12
Topic 12: Electromagnetic induction	6
Topic 13: Quantum physics and nuclear physics	15
Topic 14: Digital technology	8
Options	15/22
Options SL	
Option A: Sight and wave phenomena	15
Option B: Quantum physics and nuclear physics	15
Option C: Digital technology	15
Option D: Relativity and particle physics	15

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	Teaching hours
Options SL and HL	
Option E: Astrophysics	15/22
Option F: Communications	15/22
Option G: Electromagnetic waves	15/22
Options HL	
Option H: Relativity	22
Option I: Medical physics	22
Option J: Particle physics	22

Students at SL are required to study any **two** options from A–G.
The duration of each option is 15 hours.

Students at HL are required to study any **two** options from E–J.
The duration of each option is 22 hours.