

## **IB Physics Standard Level (SL) Course Outline**

The standard level (SL) IB Physics syllabus is broken down into five modules as listed below. Each module contains numerous sub-modules that all link to their overarching theme. At times, the numbering of the sub-modules is not consecutive due to the fact that some sub-modules are not required at the standard level, only at the higher level - which we do not currently teach at Island Academy.

A spiral approach is taken to the teaching, meaning that we do not work through the syllabus strictly from the start to finish in the order listed below. Instead we move around and between modules to recap and build upon prior knowledge, as well as find conceptual and mathematical links between different themes.

<b>A. Space, time &amp; motion</b>	A.1 Kinematics	A.2 Forces & momentum	A.3 Work, energy & power		
<b>B. The particulate nature of matter</b>	B.1 Thermal energy transfers	B.2 The greenhouse effect	B.3 Gas laws	B.5 Current & circuits	
<b>C. Wave behaviour</b>	C.1 Simple harmonic motion (SHM)	C.2 Wave Model	C.3 Wave Phenomena	C.4 Standing waves & resonance	C.5 Doppler Effect
<b>D. Fields</b>	D.1 Gravitational Fields	D.2 Electric & magnetic Fields	D.3 Motion in electro-magnetic fields		
<b>E. Nuclear &amp; quantum physics</b>	E.1 Structure of the atom	E.3 Radioactive decay	E.4 Fission	E.5 Fusion & stars	