Physics (HL) 11

Time: 8 x 35 minutes per week

Course Description:
The IB Diploma Programme physics course is aimed at building a deeper knowledge and understanding of physics. It allows students to develop traditional practical skills and techniques and to increase the use of mathematics in solving physics related problems. It also allows students to develop interpersonal skills and information and communication technology skills, which are essential in modern scientific endeavour and are important life-enhancing, transferable skills in their own right. Students at standard level (SL) and higher level (HL) undertake a common core syllabus, a common internal assessment (IA) scheme and have some overlapping elements in the options studied. Students at HL are required to study some topics in greater depth, to study additional topics and extension material of a more demanding nature in the common options.

Resources:

K.A. Tsokos (2014), Physics for the IB Diploma, Cambridge University Press.
T. Kirk (2014), Oxford IB Study Guide - Physics for the IB Diploma, Oxford University Press

Main Topics Covered:

Semester 1
- Physics and physical measurement
- Mechanics
- Thermal Physics
- Waves
- Wave Phenomeon

Semester 2
- Option subject: Engineering Physics
- Circular Motion & Gravitation
- Energy production
- Internal Assessment

Assessment

Internal Assessment for Reports	Weighting
Quarter 1 – CA1 only Quarter 2 (end of semester 1) – CA1+ CA2 + SA1 Quarter 3 – CA3 only Quarter 4 (end of semester 2) – CA3+ CA4 + SA2 • End of Semester Examinations (SA1 **Or** SA2) • Continual Assessment (CA1 + CA2 **Or** CA3 + CA4) including: - Topic tests - Lab reports	 70 20 + 10
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