

Physics 9

Time: 6x 35 minutes per week

Course Description:

The IGCSE Physics course is aimed at providing an educational experience through well-designed studies of experimental and practical science. The syllabus content includes general physics, thermal physics, waves, electricity, magnetism and atomic physics. The course develops understanding to allow students to recognise the usefulness and limitations of the scientific method and to appreciate its applicability in other disciplines and in everyday life.

Resources:

**Sang, David (2010), Cambridge IGCSE Physics Coursebook, Cambridge University Press, UK.
Physics Matters GCE O Level Workbook (4 Edition)**

Main Topics Covered:

Semester 1

General Physics

- Measurement
- Mechanics
- Pressure

Thermal Physics

- The simple kinetic molecular model of matter
- Thermal properties of matter
- Transfer of thermal energy

Semester 2

Properties of waves& sound

- General wave properties
- Light
- Sound
- Electromagnetic waves

Electricity and Magnetism

- Electrical quantities
- Electric circuits
- Magnetism

Assessment

Internal Assessment	Weighting
<ul style="list-style-type: none"> • End of Semester Examinations (SA1 + SA2) • Continual Assessment (CA1 + CA2 + CA3 + CA4) including: <ul style="list-style-type: none"> - Topic tests - Assignments - Lab reports 	25 + 45 10 + 5 + 10 + 5
Total	100