

# IGCSE Physics

## Subject Content

The Year 10 and 11 Physics course at Tenby International School Penang is designed to be taken over two years for examination at age 16-plus.

There are five main topics covered in IGCSE Physics. They are:

- General Physics
- Thermal Physics
- Properties of waves, including light and sound
- Electricity and magnetism
- Atomic Physics.

## Formal Assessment

At the end of Grade 11 all candidates sitting for IGCSE Physics must enter for three papers. These are Paper 1, one from either Paper 2 or Paper 3, and Paper 5. The decision on whether a student is entered for the extended or core curriculum will be made in consultation with the student after the mock examinations in Grade 11.

<b>Core curriculum</b> Grades C to G available	<b>Extended curriculum</b> Grades A* to D available
<b>Paper 1</b> (45 minutes) <b>Compulsory</b> A multiple choice paper consisting of forty questions This paper will be weighted at 30% of the final total available marks.	
<b>Either:</b> <b>Paper 2</b> (1 hour 15 minutes) Core theory paper consisting of 80 marks of short-answer and structured questions. This paper will be weighted at <b>50%</b> of the final total available marks	<b>Or:</b> <b>Paper 3</b> (1 hour 15 minutes) Extended theory paper consisting of 80 marks of short-answer and structured questions. This paper will be weighted at <b>50%</b> of the final total available marks
<b>Paper 5</b> <b>Practical Assessment Test</b> (1 hour 15 minutes) The purpose of this component is to test appropriate skills in experimental investigations. Students are set a number of experimental problems which they have to investigate and report on during the examination period. This practical assessment will be weighted at <b>20%</b> of the final total available marks.	

**School Assessment**

Students will undertake a variety of assessment tasks each term including practical investigations, quizzes, unit tests, essays, presentations and projects. These are used to derive an attainment grade. Students are also given an effort grade in each reporting period.

**Standard Texts**

*Cambridge IGCSE Physics. Published by Collins. Author: Malcolm Bradley and Chris Sunley*

Each section in the book covers the essential knowledge and skills the students need. The textbook also has some useful features that have been designed to help the students to understand all the aspects that students will need to know for this specification. The workbook contains extensive reading materials and varied exercises to support the textbook.