



SUBJECT: Physics IB Standard

HEAD OF DEPARTMENT:

Mrs K Ardley

EXAM BOARD AND SYLLABUS NUMBER:

IBO / QAN: 60131810

SYNOPSIS OF CONTENT:

The course comprises a central core of study which covers the following topics:

1. Measurements and uncertainties
2. Mechanics
3. Thermal physics
4. Waves
5. Electricity and magnetism
6. Circular motion and gravitation
7. Atomic, nuclear and particle physics
8. Energy production

Students also study one extension module which could be astrophysics, engineering physics, imaging or relativity.

WHY STUDY THIS SUBJECT?

Physics helps us understand the universe around us, from the tiniest subatomic particle to the largest galaxy and beyond. It also helps us understand how technology around us works.

Physics develops mathematical problem solving skills and logical thinking. It helps us frame questions in a way that can be answered, and discover answers for ourselves.

SELF STUDY ADVICE / USEFUL WEBSITES:

https://www.youtube.com/channel/UCZzatyx-xC-DI_VVUVHYDYw

HOW IS IT ASSESSED?

Paper 1 - ¾ hour - 30 multiple choice questions on the core topics. - 20%

Paper 2 - 1¼ hours - Short answer questions and extended response questions. - 40%

Paper 3 - 1 hour Section A two or three short answer questions based on experimental skills and techniques and analysis and evaluation of unseen data. Section B several short answer questions and extended response questions from the extension module. - 20%

Internal assessment of an individual investigation which will involve practical work - 20%

ADDITIONAL INFORMATION / CAREER OPPORTUNITIES

Standard physics will show that you have skills in maths, and in problem solving, but will not be enough by itself to apply for engineering or similar courses at degree level. It is better suited to students who wish to support another quantitative subject such as another science, maths or economics, or who wish to maintain breadth at sixth form without applying for physics related courses at university.

SPECIFIC MATRICULATION REQUIREMENTS

Grade 5 in GCSE Physics or grade 55 in GCSE Combined Science: Trilogy, with Grade 5 in GCSE Mathematics