

Physics Curriculum Summary

KS5 Curriculum Summary

Introduction

The course aims to develop students' knowledge and understanding in physics and its applications, to develop an understanding of the link between theory and experiment, and to extend their understanding of the way in which mathematical expressions relate to physical principles. A full programme of practical work is included to reinforce the theory lessons. A typical week's homework would include a set of numerical and qualitative problems, a web based assignment, and preparation for and writing up an experiment. Students are encouraged to read round the subject, for example by reading New Scientist or Physics Review regularly.

Exam board: AQA

A-level Specification:

[AS and A-level Physics Specification Specifications for first teaching in 2015 \(aqa.org.uk\)](http://aqa.org.uk)

Non-Examination Assessment

There is no coursework element, but practicals are an integral part of the syllabus and final exams, and a practical skills verification will form an additional qualification.

Year 12

Topic	Principal resources
Measurements and Errors	AQA Physics, Oxford University Press, shared resources
Particle and Quantum Physics	
Waves	
Mechanics	
Electricity	
Materials	
Nuclear Physics	
Thermal Physics	

Year 13

Topic	Principal resources
Further mechanics	AQA Physics, Oxford University Press, shared resources
Electric and magnetic fields	
Gravitational fields	
Review of Nuclear and Thermal Physics	
Option: Turning Points	