

# PHYSICS

## HEAD OF DEPARTMENT

Mr A Hoyle  
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## TYPE OF QUALIFICATION

A-level

## EXAM BOARD

AQA

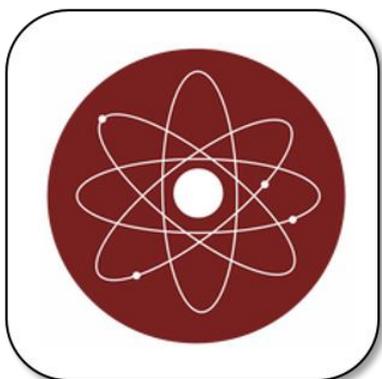
## SPECIFICATION

[Click here](#)

## ENTRY REQUIREMENTS

*Preferred:* GCSE Physics grade 7, or combined science grade 77 and Maths grade 7

*Essential:* GCSE Physics grade 6 or combined science grade 66 and Maths grade 6



## AIMS OF THE COURSE

The aims of this course are to:

- nurture students' passion for Physics and lay the groundwork for further study in science or engineering
- develop students' theoretical understanding of the Physics world
- equip students with the essential practical skills they need to link theory to reality

## COURSE OUTLINE & ASSESSMENT

The A-Level Physics course consists of 9 topics:

Topic 1: Measurements and their errors

Topic 2: Particles and radiation

Topic 3: Waves

Topic 4: Mechanics and materials

Topic 5: Electricity

Topic 6: Further mechanics and thermal physics

Topic 7: Fields and their consequences

Topic 8: Nuclear physics

Topic 9: Turning points in physics

Practical work is embedded throughout the course and assessed separately through the practical endorsement award recorded on the A Level certificate

## CAREER PROSPECTS

A-level Physics is accepted for a wide range of University courses. Physics is a traditional subject and is identified as a key facilitating subject by the Russell Group of elite Universities. Physics is a sensible choice for students considering a career in Physics, Medicine, Veterinary Science, Dentistry, Computing, Chemistry, Biology, Mathematics and Environmental Science. Physics will also prepare students for industry careers, such as those within the engineering or electronics sectors.

## SUBJECT ENRICHMENT



### Something to think about...

Is our universe infinite? If it is already infinite, how can it be getting any bigger? And is there really only one?



### Something to listen to...

'The Infinite Monkey Cage' is a light-hearted podcast available on BBC Sounds covering all things physics ([click here](#)). 'Sixty Symbols' is a great series of videos on the symbols of physics and astronomy ([click here](#)).



### Something to read...

A great starting point is the [Physics Review magazine](#). Lots of articles on the application of physics from [Mapping Earth's Gravity](#) to the [physics of measurements and building film props](#). If you want to try out some of the challenges real physicists tackle using the physics you'll learn in Y12 & Y13, look at the [NASA  \$\pi\$  day challenges](#).

