

Course title: Physics A Level AQA

Academic year:	2027
Course Venue:	King Edward VI High School
Course Type:	A level
Duration:	2 years

Course Description: Physics, like all sciences, is a practical subject. Throughout the course pupils will carry out practical activities including:

- investigating interference and diffraction of laser light
- measuring acceleration due to gravity
- investigating systems that oscillate
- investigation of the links between temperature, volume and pressure
- safe use of ionising radiation
- investigating magnetic fields.

These practicals give students the skills and confidence needed to investigate the way things behave and work. It will also ensure that if students choose to study a Physics-based subject at university, they'll have the practical skills needed to carry out successful experiments.

Course Content:

AS-level, comprised of:

Measurements and their errors
 Particles and radiation
 Waves
 Mechanics
 Energy
 Electricity

A-level, as AS, plus:

Further mechanics and thermal physics
 Fields
 Nuclear physics
 Plus one option from the following: Astrophysics, Medical physics, Engineering physics, Turning points in physics, Electronics

Entry requirements: The standard entry criteria to study in the sixth form are a 9-5 in at least five different subjects, including English and mathematics, which would usually be at grade 4 or above.

To study science subjects at A-level (biology, chemistry, physics or psychology), you will be required to achieve at least a 6 grade in trilogy science or have achieved 6 or above in the individual subject area if taken as a separate science.



Assessment: There is no coursework on this course. However, performance during practicals will be assessed. There are three exams at the end of the two years for A-level, all of which are two hours long. At least 15% of the marks for A-level Physics are based on what you learned in your practicals. The AS has two exams at the end of the year. Both are 1 hour 30 minutes long.

Financial Information: Students will need to buy the specified course textbook. The cost of field trips, where these are necessary and appropriate, will also be passed on to students.

Future opportunities: Studying A-level Physics offers an infinite number of amazing career opportunities including engineering, astrophysics, chemical physics, nanotechnology, renewable energy and more, the opportunities are endless.

Further information: Contact Mrs S M Dolloway, Subject Leader - dolloway.s@kevi.org.uk

