

## Physics A Level AQA (Block C)

<b>Academic year:</b>	2020
<b>Course Venues:</b>	King Edward VI High School
<b>Course Type:</b>	A level
<b>Course Code:</b>	12CKePH1
<b>Duration:</b>	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 9-4 in at least seven different subjects, including English and mathematics, which would usually be at grade 4 or above.

To study A-level Physics, you will be required to achieve at least a 6/6 grade in combined science or have achieved 6 or above in Separate Science Physics. A grade 6 in mathematics is also required.

**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:

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