

## Key Stage 5: Physics Year 1

### Subject Specifications

**Exam board:** AQA: 7407 & 7408

**Level:** 3

<http://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408>

### Course Description

#### What will be studied?

**3.1 - Measurements and their errors:** Use of SI units and their prefixes, Limitation of physical measurements, and Estimation of physical quantities

**3.2 - Particles and radiation:** Particles, and Electromagnetic radiation and quantum phenomena

**3.3 - Waves:** Progressive and stationary waves, and Refraction, diffraction and interference

**3.4 - Mechanics and materials:** Force, energy and momentum, and Materials, including the Young modulus

**3.5 - Electricity:** Topics you will study include: Current electricity

### Entry requirements

#### What are the entry requirements?

[Click here to access the Physics Enrolment Task](#)

The minimum entry requirement will be six GCSE qualifications at grade 4 - 9 including English Language and Mathematics. In addition to this students will be expected to achieve minimum of grade 6 in all Separate or grade 6 6 in Combined science GCSEs and have chosen to study Maths at A Level.

### Assessment

#### How will I be assessed?

Paper 1: 7407/1 [50%]	<b>Assessed by a 1 ½ hour internal examination in the Summer Term</b>
Paper 2: 7407/2 [50%]	<b>Assessed by a 1 ½ hour internal examination in the Summer Term</b>

### Careers & Progression

#### Career ideas and Progression route

Students will progress into Year 2 during which you have the opportunity to gain an A Level qualification in this subject. A Level 3 qualification in Physics will enable students to enter degree & degree level courses related to research & engineering.

**How can I help my child?**

**Guidance and advice**

[Glossary of Technical Terminology](#)

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## Key Stage 5 Physics Year 2

### Subject Specifications

**Exam board:** AQA: 7407 & 7408

**Level:** 3

<http://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408>

### Course Description

#### What will be studied?

**3.6 - Further mechanics and thermal physics:** As well as revision of Year 1 topics, topics you will study include: Periodic motion and Thermal physics

**3.7 - Fields and their consequences:** As well as revision of Year 1 topics, topics you will study include: fields, gravitational fields, Electric fields, Capacitance, and Magnetic fields

**3.8 - Nuclear physics:** As well as revision of Year 1 topics, topics you will study include: Radioactivity, including Radioactive decay, Nuclear instability, Induced fission and Safety Aspects. Option Unit: Engineering.

### Entry requirements

#### What are the entry requirements?

[Click here for Physics Transition Task](#)

The minimum recommended entry requirement is a D grade at AS Level [Year 1]

### Assessment

#### How will I be assessed?

Paper 1: 7408/1 [34%]	<b>Assessed by a 2 hour examination in the Summer Term</b>
Paper 2: 7408/2 [34%]	<b>Assessed by a 2 hour examination in the Summer Term</b>
Paper 3: 7408/3 [32%]	<b>Assessed by a 2 hour examination in the Summer Term</b>

### Careers & Progression

#### Career ideas and Progression route

A level 3 qualifications in Physics will enable students to enter degree & degree level courses related to research and engineering.

**How can I help my child?**

**Guidance and advice**

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