

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 5 in all Separate or Combined science GCSEs and have chosen to study Maths at A Level.

Assessment

How will I be assessed?

Paper 1: 7407/1 [50%]

Assessed by a 1 ½ hour internal examination in the Summer Term

Paper 2: 7407/2 [50%]

Assessed by a 1 ½ hour internal examination in the Summer Term

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](#)

[Recommended Text Books](#)

[Past Exam Papers](#)

[Physics Related Articles](#)

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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

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

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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[Recommended Text Books](#)

[Past Exam Papers](#)

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