

## Physics

### SCIENCES



#### Content

The course includes the following areas of study:

- Our dynamic Universe
- Particles and waves
- Electricity



#### Skills

Learners will be able to:

- apply knowledge and understanding of physics
- understand the role of physics in scientific issues and relevant applications of physics, including the impact these could make in society and the environment
- develop scientific inquiry and investigative skills
- develop scientific analytical thinking skills, including scientific evaluation, in a physics context
- use technology, equipment and materials, safely, in practical scientific activities
- develop planning skills
- problem-solve in a physics context
- use scientific literacy to communicate ideas and issues and to make scientifically informed choices
- develop the knowledge and skills for more advanced learning in physics



#### Opportunities for Learners

Learners will be able to:

- develop their interest in and understanding of the world
  - engage in a wide range of investigative tasks and develop important skills to become creative, inventive and enterprising
  - evaluate environmental and scientific issues, consider risk, and make informed decisions
  - describe and interpret physical phenomena using mathematical skills
- practise scientific methods of investigation from which general relationships are derived and explored



#### Assessment

- The course will be assessed through two question papers (exams) and an assignment, which will be marked by SQA and graded A to D.
- The marks are scaled so that the question papers together make up 80% of the total assessment mark and the assignment makes up 20%.
- The assignment topic is chosen with guidance from the teacher/lecturer and must involve experimental work.



#### Question Paper 1

Multiple choice questions (25 marks)

45 minutes

#### Question Paper 2

Restricted-response and extended-response questions (130 marks)

2 hours 15 minutes

#### Specimen Paper

[www.sqa.org.uk/pastpapers/findpastpaper.htm](http://www.sqa.org.uk/pastpapers/findpastpaper.htm)

#### Assignment

Two stages: research and report. The whole assignment is recommended to take 8 hours max and the report is written up under timed conditions.

20 marks

8 hours (of which, 2 hours max for the report stage)



**Progression** Higher courses can stand alone or follow on from National 5 qualifications and may lead to Advanced Highers, the Scottish Baccalaureate and a range of qualifications within Further and Higher Education.



For course information, specimen question papers and past paper guidance visit:

Higher Physics: [www.sqa.org.uk/sqa/47916.html](http://www.sqa.org.uk/sqa/47916.html)

Curriculum for Excellence Key Terms and Features Factfile

Education Scotland: <https://education.gov.scot/nationalqualifications>

Further Information for Parents and Learners Information on assessment, skills, progression, revision resources and summaries of National Qualifications

[www.parentforumscotland.org](http://www.parentforumscotland.org)



the National Parent Forum of Scotland

[www.parentforumscotland.org](http://www.parentforumscotland.org)  
enquiries@parentforumscotland.org

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