



Introducing Cambridge IGCSE™ Physics 0625¹

Why choose this syllabus?

Cambridge IGCSE Physics develops a set of transferable skills including handling data, practical problem-solving and applying the scientific method. Learners develop relevant attitudes, such as concern for accuracy and precision, objectivity, integrity, enquiry, initiative and inventiveness. Our approach in Cambridge IGCSE Physics encourages learners to be:

- **confident**, interested in learning about science, questioning ideas and using scientific language to communicate their views and opinions
- **responsible**, working methodically and safely when working alone or collaboratively with others
- **reflective**, learning from their experiences and interested in scientific issues that affect the individual, the community and the environment
- **innovative**, solving unfamiliar problems confidently and creatively
- **engaged**, keen to develop scientific skills, curious about scientific principles and their application in the world.

Syllabus aims

The aims are to enable students to:

- acquire scientific knowledge and understanding of scientific theories and practice
- develop a range of experimental skills, including handling variables and working safely
- use scientific data and evidence to solve problems and discuss the limitations of scientific methods
- communicate effectively and clearly, using scientific terminology, notation and conventions
- understand that the application of scientific knowledge can benefit people and the environment
- enjoy science and develop an informed interest in scientific matters which support further study.

Content overview

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|------------------------------|------------------------------|--------------------|
| 1. Motion, forces and energy | 3. Waves | 5. Nuclear physics |
| 2. Thermal physics | 4. Electricity and magnetism | 6. Space physics |

Assessment objectives

| Assessment objectives | Weighting in IGCSE |
|--|--------------------|
| Knowledge with understanding | 50% |
| Handling information and problem solving | 30% |
| Experimental skills and investigations | 20% |
| Total | 100% |

Guided learning hours

130 guided learning hours. This is for guidance only. The number of hours a learner needs to achieve the qualification may vary according to each school and the learners' previous experience of the subject.

Exam timetable

Students can take exams in the June and November exam series.

Previous study

We recommend that learners starting this course should have studied a science curriculum such as the Cambridge Lower Secondary programme or equivalent national educational framework.

Further study

It is recommended that the learners complete this course as a previous study for Cambridge International AS & A Level Physics 9702.

¹ This content is based on the 2026–2028 version of the Cambridge IGCSE Physics syllabus. For the latest updates and detailed information, please visit <https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-physics-0625/>.