

Physics Summer Module 2026

Brief Overview of the Course

The Physics course consists of three papers assessed by written examinations. In the first of these, students will study many of the core areas of Physics including Mechanics, Electricity, Electric and Magnetic Fields as well as Particle Physics. The second paper covers Materials, Gravitational Fields, Space, Quantum and Nuclear Physics.

Paper 3 focuses on practical skills and data analysis. Students develop experimental design, problem solving, data processing and evaluation skills, including uncertainty analysis. Fifteen percent of A-Level examination questions assess practical skills.

(For further details, please see our Sixth Form Prospectus [Sixth Form Prospectus](http://strschool.co.uk)
[Sir Thomas Rich's School \(strschool.co.uk\)](http://strschool.co.uk))

Exam Board: Edexcel

Specification web link: [Specification - A level \(pearson.com\)](http://www.pearson.com)

Core Knowledge and Understanding Task

Whether you have studied this subject before or not, there are elements of core knowledge and understanding that you must have prior to starting the A Level course. Please answer the questions that have been set up for you at Seneca Learning and Isaac Physics

Students are directed to complete Seneca Learning activities using this link:

<https://app.senecalearning.com/dashboard/class/ad0ev317u0/assignments/assignment/5cc20362-a1ae-406b-b28b-ee550f45c5ee>

Also complete the assignments on Isaac Physics group <https://isaacscience.org/account?authToken=3VTPDM>

The Bigger Picture Task

Students are asked to read a book or article about physics and write a review of no more than 200 words, either from their own reading or from the recommended reading list from below:

- **Six Easy Pieces** by Richard Feynman –
A fascinating introduction to fundamental physics concepts from one of the greatest physicists.
- **The Feynman Lectures on Physics** by Richard Feynman –
A classic, insightful read for anyone wanting to grasp physics beyond the syllabus.
- **A Brief History of Time** by Stephen Hawking – Explores cosmology, black holes, and the origins of the universe in an accessible manner for general reads
- **The Elegant Universe** by Brian Greene –
Introduces string theory, hidden dimensions, and the fundamental fabric of reality.
- **Cosmos** by Carl Sagan –
Combines astronomy, physics, and philosophy, tracing the evolution of science and the cosmos
- **Seven Brief Lessons on Physics** by Carlo Rovelli – A concise overview of modern physics, including general relativity and quantum mechanics