



Archbishop Tenison's

CHURCH OF ENGLAND HIGH SCHOOL

SIXTH FORM: Physics



Physics A-Level Course Overview

From the get-go, students tackle a series of experiments designed to train them in the approaches and skills to understand and apply the scientific process: theory based on a mathematical model-> prediction-> collection of data and analysis-> evaluation and conclusion.

We follow closely the OCR Physics A specification, packed full of physics big ideas such as conservation laws, wave-particle duality, fields (gravitational, electrical and magnetic), fundamental forces, nuclear physics and radioactivity.

Areas of application include stress-strain analysis, cosmology and medical imaging.



What's great about Physics at Tenison's Sixth Form?

Students gain confidence with designing experiments and the practical skills to carry them out.

Former students use the physics knowledge, skills and approaches professionally.

Smaller classes allow closer monitoring of progress and we give tailored support.



Opportunities and Successes

- *Sixth formers showing off high-quality work and projects at sixth-form open evening in October*
- *Building a portfolio of experiment write-ups that helps students with their future goals*
- *British Olympiad competitions/challenges*
- *Previous students have taken their physics knowledge/skills in engineering disciplines including mechanical, civil, aeronautical; and cosmology.*