



# St. Anne's Sixth Form

## Get Ahead Tasks

### Physics A Level

To all Year 11 students who wish to continue studying Physics at A-Level. What a fantastic and inspired choice you are making! Physics is a broad subject which draws on aspects of mathematics, philosophy, natural science, and engineering.

It is a subject rooted in asking as many questions about life and the universe as possible. Why does that happen? Does it always happen? What happens if I change something? Where do these rules apply? Are these rules always true? What caused us to be here?

We will continue to be here? What is that big bright thing in the sky? How long will it take to get to where I am going?

**Find below some links to bridging resources to help you prepare.**

#### **Resources - Academic Preparation**

- Head Start to A-level Physics (CGP A-Level Physics)
- A Level Transition Work – on Isaac Physics – Sign up for free and join the class using this link <https://isaacphysics.org/account?authToken=APTCDU>
- A Level Transition Work book – a workbook to complete
- <https://www.alevelphysicsonline.com/> - Free videos on year 12 topics

#### **Books**

- Uncle Albert Series, Russell Stannard
- Longitude, Dava Sobel
- Astrophysics for People in a Hurry, Neil de Grasse Tyson
- Physics, Aristotle

Subject Leader: **Mr R Thompson**

Exam Board: **OCR Physics A H556**



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#### Films and Documentaries

- Hidden Figures – phenomenal story of mathematicians during the space race.
- Apollo 13 – incredible true story. Imitation Game – fantastic film on the decryption of Enigma.
- The Secrets of Quantum Physics, Jim Al-Khalili ( On YouTube)
- Shock and Awe: The Story of Electricity, Jim Al-Khalili ( On YouTube)
- From Ice to Fire: The Incredible Science of Temperature, Dr Helen Czerksi

#### Podcasts

- The Skeptics' Guide to the Universe, More or Less: Behind the Stats, Sean Carroll's Mindscapes, Science in Action, In Our Time, The Life Scientific

#### Places to visit in London

- Science Museum, in Kensington.
- Faraday Museum at the Royal Institute - Faraday's magnetic laboratory displayed as it was in the 1850s, opposite a current state-of-the-art nanotechnology lab.
- Royal Observatory, in Greenwich – Stand on the world-famous Prime Meridian Line, visit the Planetarium and learn about astronomy

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