

Physics – KS4 to KS5 Bridging Work

Specification - [Click here](#)

The most important document for your studies. It includes the course content, the skills you will need and how you will be assessed.

Practical Skills - [Click here](#)

This document explores the language and the skills that will be developed throughout your practical skills work. It will remind you of common concepts (e.g. independent and dependent variables) and introduce new concepts which will be important in future work (e.g. uncertainty)

SI Units - [Click here](#)

Measuring variables is an important part of Physics. This is a guide to the base units we use throughout the course.

Videos to Watch

[Shock and Awe – Jim Al Khalili](#) (The first in a three part documentary on the history of electricity. The other parts can be found on the site)

[The Planets – Brian Cox](#) (A series on the formation of our Solar System)

[Sound Waves – Helen Czerski](#) (The relationship between Physics and music)

Books

One of the best ways to learn new ideas in Physics is to read around the subject. Here is a list of suggested books, but there are many others available.

- Six Easy Pieces – Richard Feynman
- Why does $E=mc^2$? Brian Cox and Jeff Forshaw
- How To Teach Quantum Physics To Your Dog – Chad Orzel
- Big Bang – Simon Singh
- The Ascent of Gravity – Marcus Chown
- The Particle at the End of the Universe – Sean Carroll