



Physics

Essential Information

Exam Board: Edexcel

Specification Code: 9PH0

Teachers: Mr J McAleese, Mrs D Bayford

Reading

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/physics/pbr72-head-start-to-a-level-physics-with>

<https://www.cgpbooks.co.uk/secondary-books/as-and-a-level/science/physics/pmr71-a-level-physics-essential-maths-skills>

What else could I do to prepare?

Read

- A short History of Nearly Everything ~ Bill Bryson
- Quantum Theory Cannot Hurt You ~ Marcus Chown



Watch ~ suggestions

- [Introduction to Maths for A Level Physics](#)
- [minutephysics - YouTube](#)
- [Shock and Awe: The Story of Electricity -- Jim Al-Khalili BBC Horizon](#)
- [PBS Nova S35E08 Absolute Zero: The Conquest of Cold Full Documentary](#)
- [BBC - The Fantastic Mr Feynman](#)

Listen

- <https://lifemoreextraordinary.com/podcast/how-to-succeed-in-a-level-physics/>

Task to be completed:

1. **Transition booklet:** This has several practise questions on pre-knowledge topics. You will be assessed on your learning during week 2.
2. To get the best grades in A Level Physics you will have to get good at completing independent research and making your own notes on difficult topics. Below are links to 5 websites that cover some interesting Physics topics.

Make 1 page of notes or an information poster from one of the sites covering a topic of your choice.

- a) [About | CERN](#)
CERN encompasses the Large Hadron Collider (LHC) and is the largest collaborative science experiment ever undertaken. Find out about it here and make a page of suitable notes on the accelerator.
- b) [If the Moon Were Only 1 Pixel - A tediously accurate map of the solar system](#)
The solar system is massive and its scale is hard to comprehend. Have a look at this award winning website and make a page of suitable notes.
- c) <https://phet.colorado.edu/en/simulations/category/html>
PhET create online Physics simulations when you can complete some simple experiments online. Open up the resistance of a wire html5 simulation. Conduct a simple experiment and make a one page summary of the experiment and your findings.
- d) <http://climate.nasa.gov/>
NASA's Jet Propulsion Laboratory has lots of information on Climate Change and Engineering Solutions to combat it. Have a look and make notes on an article of your choice.
- e) <http://www.livescience.com/46558-laws-of-motion.html>
Newton's Laws of Motion are fundamental laws for the motion of all the object we can see around us. Use this website and the suggested further reading links on the webpage to make your own 1 page of notes on the topics.

All tasks to be handed in during the first lesson of the subject in September