



Year 11 Preparation for Study at Loreto College

SUBJECT

Physics



QUALIFICATION

A-Level



PREPARATION TASKS



- Download this preparation booklet: [AQA Transition Guide: Physics](#)
- Learn all the SI prefixes on page 10 of this booklet
- Try to complete all the questions from page 11 onwards

If you can do all of these, you will be ready to start A-Level Physics!

RESEARCH



Each year about half our students join with Combined Science - this is not a disadvantage. You might however want to brush up on the topics you have never studied, or did not get taught by your teacher.

<https://www.bbc.co.uk/bitesize/examspecs/zsc9rdm>

Extra topics in Single Physics GCSE

- Static Electricity
- Nuclear Fission and Fusion
- Moments, levers and gears
- Pressure in fluids
- Lenses
- Moments, levers and gears
- Pressure in fluids

RECOMMENDED READING



New Head Start to A-level Physics (CGP A-Level Physics) – [The Kindle Edition](#) is currently free on Amazon

You might also be interested in:

- Al-Khalili, Jim - Paradox: The Nine Greatest Enigmas in Science
- Cox, Brian & Forshaw, Jeff - Why Does $E=mc^2$?
- Petroski, Henry Remaking the World
- James L, Adams - Flying Buttresses, Entropy and O-Rings: The World of an Engineer
- Tremayne, David - The Science of Formula 1 Design

RECOMMENDED WEBSITES



www.alevelphysicsonline.com (free videos to get you interested)

A documentary about the development of electricity
<https://www.youtube.com/watch?v=Gtp51eZkwol>

Any of Brian Cox's vast back catalogue on BBC iPlayer.

This research work is really useful to do, as it will help you to explore your options for college study. Please be aware that agreed courses will be finalised at enrolment after students have been awarded their GCSE results.