

Private study - physics

- As well as regular homework you MUST review each of your lessons. There may or may not be notes to review, in which case you should produce detailed notes for the current topic.
- When you have your notes and you are confident you understand - start practicing!
- There are many enrichment opportunities in science and during some study periods it may be productive to work on your independent research project in the 6th form QuEST lab. You will have had health and safety training to work in there if you are an approved user.
- Opportunities - to fully enhance your CV/UCAS statement it is vital to look up the various opportunities for internships, apprenticeships, work experience and build relationships in the field of study you are interested in. If you are up to date with your tasks this is an excellent use of time.

Core practicals:

You must be up to date with your core practicals. Lab books will normally be left in the labs, but you may borrow them to work on your data analysis.

There will be TWO formal reports during year 12 and ONE formal report in year 13 on a CORE practical of your choice. You may write these in advance of the work being set.

Problem solving:

Two key resources for developing problem solving skills and to practice your physics are Isaac physics and the British Physics Olympiad. ***“A problem a day keeps the doctor at bay!”***

1. <https://isaacphysics.org/>
 - a. **You are expected to work through problems independently - even if they have not been set as homework.**
 - b. Identify areas you where you are having difficulty and make a note of it.
2. Visit the British physics Olympiad pages, try to do past papers regularly, over train for the Olympiad competitions! <https://www.physics.ox.ac.uk/olympiad/>
3. Visit physics and maths tutor - this is an excellent resource for question practice (including Oxford admissions papers for physics) <http://www.physicsandmathstutor.com/>
4. These are not exclusive and there are other online resources such as <http://i-want-to-study-engineering.org/> that give further guides as to private study tasks.

Conference talks:

In year 13 all students will be expected to present to the whole class on a topic of their choice within physical sciences and engineering. This is in the form of a conference talk. There is no assessment but the talk is a good opportunity for interview practice from the point of view of answering unexpected questions.

The conference talk will necessarily require research and this will count towards the practical accreditation. The talk will be scheduled in advance and therefore any student who has not yet presented should work on their talk.

If you do ALL of these tasks you will be ahead of the game and ready to work at the level you need to gain a good grade at A-level Physics.