

When studying A-level Physics, it is important that you not only attend all of your lessons and complete all of your homework, but that you are also doing independent study. We would recommend that you are spending at least 5 hours a week on your independent study. In order for this study to be of maximum benefit it is important that you do a range of different activities, you should be doing some from each of the boxes below. In addition, if you would like to stretch yourself beyond the A-level curriculum then have a look in the super-curricular box for ideas.

Content

One important part of independent study is making sure you have learnt all of the content, below are some suggestions of things you can do to help learn the content in Physics A-level:

After each lesson:

- ✓ *Reviewing previous lessons using your notes and the Kerboodle textbook to create summary notes and/or flashcards*
- ✓ *Asking classmates about content you may have found difficult or missed due to absence*
- ✓ *Completing the questions at the end of each page of the Kerboodle text book*

After each topic:

- ✓ *Creating mind maps about topics you have finished e.g. "Forces and Motion"*
- ✓ *Completing the summary questions at the end of each chapter in the Kerboodle text book*
- ✓ *Highlighting/ colour coding your notes*
- ✓ *Using a revision wall to display your learning*

Skills

Another important part of independent study is developing the skills to be able to succeed in the exams. Below are some suggestions to help you develop those skills:

- ✓ *Completing and self-assessing the transition booklet*
- ✓ *Completing and self-assessing the exam questions you are directed to by your teacher*
- ✓ *Completing additional exam questions from websites like PhysicsAndMathsTutor and Isaac Physics*
- ✓ *Devising your own exam questions*
- ✓ *Completing past papers under timed conditions*

Feedback

The final important part of independent study is getting and using feedback. Feedback allows you to understand what it is you need to do differently next time in order to improve. Below are some ideas about how you can use feedback:

- ✓ *Working with other students in groups/pairs*
- ✓ *Handing in extra exam questions you have done for marking*
- ✓ *One to one discussions with your teachers*
- ✓ *Reviewing previous mock papers to find areas of weakness to work on*
- ✓ *Attending sessions to catch up on any assessed practicals you missed due to absence*

Super-curricular Physics

If you were considering studying Physics at university, or just really interested in the subject, then you could complete some super-curricular activities. These go beyond what is covered in the curriculum and includes things such as:

- ✓ *Reading popular science books or publications*
- ✓ *Competing in the Physics Olympiad*
- ✓ *Watching YouTube videos from physics communicators like VSauce and Veritasium*
- ✓ *Attending Cambridge Physics Centre Sixth Form Lectures at the Cavendish Laboratory*
- ✓ *Stargazing and talks on Wednesday evenings at the Institute of Astronomy*