

## A level Physics Expectations

A-level Physics is a demanding and challenging course that uses science and maths as tools to describe the underlying laws of nature. A-level Maths is not necessary but it does help and if you are not taking it you will need to attend extra sessions and put in extra work to be able to succeed. The course is exciting, interesting and covers up to date cutting edge Physics. There is plenty of practical work and you will be required to keep an accurate experimental log to demonstrate your competence in doing practical work ready for University.

You will need to bring the following equipment to every lesson

- Scientific calculator.
- Text book (see bottom of page for details).
- Pen.
- Pencil.
- Ruler.
- Your hard backed notebook.
- Data and formula sheet.
- Summary questions book.
- Your log of extracurricular work/activity, showing evidence for approximately 5 hours per week of Physics.

You will do the following things in lessons:

- Take reasonable notes.
- Actively take part in all practical activities.
- Listen carefully and make sure you are following what is being taught, asking questions if you don't understand.
- Comply with all safety instructions, some of the practicals are dangerous.
- Attempt all questions and calculations yourself, don't rely on others.

Outside the lessons you will need to

- Come and talk to your Physics teachers with any problems or if you are unsure of anything. We are all available outside of lessons to help, please come and ask.
- Review each lesson taught and your notes, rewriting and clarifying if necessary.
- Read ahead in the textbook, and in other media so you know what is coming.
- Complete all homework by the deadline, attempting it early so there is time to talk to your teachers if you are stuck.
- Revise carefully and thoroughly for end of unit tests.
- Completing your own independent study: completing past paper questions, watching youtube tutorials, reading around the subject, etc. This is to be recorded and signed off on your log of extracurricular activity.

The textbook we will be using is AQA Physics 2nd Edition by Jim Breithaupt, published by Oxford University Press ISBN 978-0-19-835187-0. This book contains all the content for Y12 and Y13, but it is also available as separate AS and A2 versions which are more likely to be around second hand. Either is fine, but you will need one before you start the course.