



Sixth Form Summer Work 2026



OCR- A A Level Physics (H556)

We are asking all students to complete some Independent Preparatory Work over the summer, before they join Year 12 in September. You will need to bring this work to lessons as the content will be assessed through introductory assessments which will be completed within the few first weeks of the new term.

Tasks

Welcome to A Level Physics.

We are delighted that you have chosen to study Physics at Little Heath School.

A Level Physics develops your mathematical, analytical and problem-solving skills and provides an excellent foundation for university courses and careers in engineering, medicine, physics, computing, finance and many other STEM fields.

Before joining Year-12 in September, please complete the following preparation tasks. These activities will help you make a confident start and prepare you for the introductory assessment completed during the first weeks of the course.

Task 1- Prepare for the September Baseline Assessment

Revise the following GCSE Physics topics:

- Energy
- Electricity
- Particle model of matter
- Atomic Structure
- Force and Motion
- Waves
- Magnetism and Electromagnetism
- Space Physics

For each topic produce concise revision notes that you can bring to lessons.

GCSE Higher Maths Skills Assessment

Physics relies heavily on mathematics.

Revise the following skills:

- Rearranging equations
- Standard form
- Significant figures
- Unit conversions
- Scientific notation
- Ratios
- Percentages
- Gradients
- Area under graphs
- Straight-line graphs
- Trigonometry
- Power and indices



Task 2- Familiarise Yourself with OCR A Course

The OCR A Physics course consist of six teaching modules.

Year 12

1. Practical Skills
2. Foundations of Physics
3. Forces & Motion
4. Electrons, Waves & Photons

Year 13

5. Newtonian World & Astrophysics
6. Particles & Medical Physics

Task 3 – Organise Your Folder

Good organisation is one of the biggest predictors of success at A Level.

Please bring a lever-arch folder to your first lesson.

Your folder should eventually contain sections for:

- Class notes
- Teacher worksheets
- Homework
- Assessed work
- Exam Questions
- Mark schemes
- Teacher Feedback (Purple pen improvement)
- Topic Checklist
- Formula Sheet

Keep your folder organised throughout the course.

Task 4- Get Ready for Independent Study

Success at A- Level Physics dependent on consistent independent learning.

Students are expected to complete 6 hours of independent study each week outside lessons.

During the summer, begin developing these habits by

- Reviewing your GCSE revision notes regularly.
- Complete practice questions from your revision guide.
- Making concise flashcards of key questions and definitions.
- Watching short Physics videos to strengthen your understanding.
- Keeping a notebook of questions you would like to answer in September.

Developing these study habits now will make the transition to A Level much smoother.



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Useful Online Resources

The following websites are excellent for preparing for A Level Physics.

Physics and Maths Tutor (PMT)

[Physics & Maths Tutor](#), [A-Level OCR Physics Revision - Revisely](#)

Topic-wise past-paper questions, mark schemes and revision notes for OCR-A Physics.

Google Drive – Physics Resources Folder: https://drive.google.com/drive/folders/12OsJVTvf-pTqUB7b1LndBr_QA-MF7VOI?usp=sharing

Contains all class materials including:

- **Revision slides** for each topic
- **Exam question booklets** (MCQs & extended response)
- **Timed exam practice booklets**
- **Flashcards and formula sheets**
- **Shared practical resources (PAGs)**

YouTube Recommendations

- **Physics online**
- **ZPhysics** <https://tinyurl.com/4vexhhnw>

Recommended textbook

A Level Physics OCR A

Series Editor: Gurinder Chadha

Author: Graham Bone, Gurinder Chadha and Nigel Saunders

Oxford University Press

All students are expected to have their own copy of the course textbook by the end of September. This will be used regularly for homework, independent study and lesson preparation.

Extra reading

Students wishing to extend they're beyond GCSE Physics are encouraged to complete **ONE** of the following activities.

Choose one:

- Research how **James Webb Space Telescope** is changing our understanding of the Universe.
- Explain how **MRI scanner** use of magnetic fields and radio waves to produce medical images.
- Investigate how **electric vehicles** work and compare them with petrol and diesel vehicles.
- Research one recent development in renewable energy (solar, wind, nuclear fusion or hydrogen technology).
- Read a popular Physics article or chapter from a science book and write a 150–200-word summary.