

Advanced Higher Physics: Assignment Support

Astronomy & Physics Education Group

School of Physics & Astronomy

University of Glasgow

How it will work

- Teachers should book experiment(s) for their pupil by contacting Dr Peter H. Sneddon on phas-ahp-support@glasgow.ac.uk We can only accept bookings that come from a teacher, not the pupils themselves.
- The full list of available experiments is available at <https://www.gla.ac.uk/schools/physics/research/groups/ape/supportforadvancedhigherphysics/ah-pass/>
- An individual pupil will be allowed to tackle a maximum of two experiments.
- Pupils will attend the University for a 3-hour Block (1000-1300 or 1330-1630).
- Blocks are available Tuesdays, Wednesdays and Thursdays, starting from Tuesday 28th October and running through to the Easter holidays, subject to staff availability. Places are awarded on a first-come-first-served basis.
- When making a booking we will need the pupil's name, their School, and a school contact number in case of emergencies.
- Pupils will tackle one experiment during each Block. Some experiments may require two Blocks, such as the Michelson Interferometer experiments. In such cases they should be booked in for a morning and afternoon on the same day.
- There will be demonstrator assistance on hand for the pupils, who will be shown all the equipment and how to use it safely and correctly.
- The guidance will include suggestions of how best to use the equipment to tackle the set task, but in line with the SQA guidance for the Projects we would encourage students to have given some thought to what they want to do with the equipment ahead of time.

- Pre-reading material will be made available for each experiment to help the pupil properly prepare – they should make sure to read through this before arriving at the University. This can be found at the web address above.
- We will provide assistance to allow the pupil to carry out their experiment(s) and collect their data. Preliminary analysis and discussion of sources/types of uncertainties will also be carried out to make sure that the results are sensible. Full, in-depth analysis and uncertainty work will be carried out by the pupil back at their own school.
- If it is subsequently found that there are problems with the collected data we are happy to help either identify the source of undetected systematic errors, or arrange for the pupil to return to have another go.

On the day

- Pupils should report to the Foyer of the Kelvin Building at the University of Glasgow at 1000 or 1330 (depending on whether they are attending a morning or afternoon session). An interactive campus map is available at <https://www.gla.ac.uk/explore/maps/>
- Pupils should bring a log book/jotter/lab book, something to write with, ruler, calculator etc. They may also wish to bring a USB pen to store data on, though they will also be able to email data to themselves/teachers.
- Pupils are asked to wear school uniform as it helps us find them in what can be a very busy foyer
- We are not expecting teachers to accompany their pupils, but you are always welcome to come if you want to.
- If they are staying for a full day we recommend they bring a packed lunch.