



## Year 12 PHYSICS Transition Tasks

### AS Physics Resources:

- AS Physics Unit 1 Bangor Revision Guide: <https://www.bangor.ac.uk/going-to-university/revision-guides/physics-en-2019>
- WJEC AS Physics Information: [https://www.wjec.co.uk/qualifications/physics-as-a-level/#tab\\_overview](https://www.wjec.co.uk/qualifications/physics-as-a-level/#tab_overview)
- WJEC AS Physics Data Booklet: <https://www.wjec.co.uk/media/smeouveg/s19-2420u10-1a.pdf>
- WJEC AS Physics Terms, Definitions and Units Booklet: <https://jacktilson.net/edu/physics/misc/wjec-physics-terms-defs-units.pdf>

### AS Physics Unit 1 Topics YouTube Videos:

- SI Units: [https://www.youtube.com/watch?v=DTv\\_eI9Hlro](https://www.youtube.com/watch?v=DTv_eI9Hlro)
- Scalars and Vectors: <https://www.youtube.com/watch?v=rcDXQ-5H8mk>
- Density: <https://www.youtube.com/watch?v=-EZmXVOSa20>
- Moments: <https://www.youtube.com/watch?v=7x6SpYdkjC4>

### AS Physics Unit 1 Activities:

The first topic in the WJEC AS Physics course are called '1.1 Basic Physics'. This topic covers knowledge and skills which underpin the study of all other areas of Physics. Lots of the information you will encounter in this topic will be familiar as it overlaps with the WJEC GCSE Physics course.

To begin preparing for your AS Physics studies, complete the following tasks using information from the resources listed above and/or your own research:

- ⇒ Produce a reference table of the 6 essential base SI units.
- ⇒ Show how to present quantities in terms of their base SI units by giving an example (e.g. show the base SI units for force and how these are derived).
- ⇒ Explain the difference between scalar and vector quantities.
- ⇒ Produce a reference table of scalar and vector quantities.
- ⇒ Explain what is meant by the term 'density' and show how to calculate it by giving an example calculation.
- ⇒ Make summary notes about 'Moments'. Use diagrams and the moments equation to support your explanations.