

Subject:	GCSE PHYSICS
Examination Board:	OCR
Syllabus:	GCSE Gateway Physics (9-1) J249

Topics covered:

Term 1:

P6: Radioactive decay – *including the various types of radioactive emissions and the uses and hazards of radioactive materials.*

P3: Electricity – *including Static electricity, charge and the analysis of simple circuits.*

Term 2:

P2: Forces – *including velocity and acceleration, Newton’s laws of motion, and materials science.*

Term 3:

P7: Energy – *including work done, power and efficiency*

Skills Developed:

- Knowledge and understanding of science and how science works.
- Application of skills knowledge and understanding
- Practical, enquiry and data-handling skills.
- Problem solving skills.
- Group work, research and presentation skills.

Support Material:

- Textbook – Students will have access to OCR Gateway GCSE Physics by Helen Reynolds via the Oxford University Press online service (Kerboodle)
- We recommend the Oxford University Press and Collins Revision guides. There is however no substitute for practising questions and both publishers have produced practise question books. Past Paper questions can also be downloaded from the OCR website.

What you could do to support your daughter:

- Encourage students to practise past questions regularly as part of their revision.
- Encourage awareness of science in the wider world through discussion and the use of a range of media. Students may find the Minute Physics, Veritasium and Sixty Symbols YouTube channels helpful.
- Ensure that your daughter has the opportunity to successfully carry out practical activities to develop her manipulative skills. Following a recipe to cook a meal, including the accurate measurements of masses and volumes, and consideration of cooking times and temperatures, is an excellent example.