Great Park Academy Science Curriculum Overview: Year 11 Physics

In Year 11 we are very pragmatic and are very focused on preparing for GCSE exams at the end of Year 11. Year 11 physics builds on physics topics from Years 7-10. The sequencing of topics and lessons in Year 11 has been carefully crafted to support learning and long-term memory, while also being pragmatic in terms of organising content in preparation for the structure of GCSE exam papers.

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
11	1. Working scientifically investigation  (a) Safety in science (b) Planning experiments (c) Collecting data (d) Handling data (e) Conclusions (f) Evaluating data 2. P6 – Waves  Key question of physics - How can energy be used to explain what things can do? (a) Transverse and longitudinal waves. (b) Properties of waves. (c) Reflection of waves (Separate physics only). (d) Sound waves (Separate physics	2. P6 – Waves  Key question of physics - How can energy be used to explain what things can do? (a) Transverse and longitudinal waves. (b) Properties of waves. (c) Reflection of waves (Separate physics only). (d) Sound waves (Separate physics only). (e) Waves for detection and exploration (physics only). (f) Electromagnetic waves. (g) Lenses (Separate physics only). (h) Visible light (Separate physics only). (i) Black body radiation (Separate physics only). 3. P8 – Space physics (Separate GCSE physics only)	**Mock Exams** **Review of previous topics**	**Mock Exams** **Review of previous topics** **GCSE Exams**	**Review of previous topics** **GCSE Exams**	**GCSE Exams**

	only). (e) Waves for detection and exploration (physics only). (f) Electromagnetic waves. (g) Lenses (Separate physics only). (h) Visible light (Separate physics only). (i) Black body radiation (Separate physics only).	 Key question of physics - How do forces impact objects?  Key question of physics - How can energy be used to explain what things can do?  Key question of physics - From small things to big things, what is the structure of the Universe? (a) Our solar system. (b) The life cycle of a star. (c) Orbital motion, natural and artificial satellites. (d) Red-shift.				