

Year 10 Physics – Outline Programme of Study

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Big ideas/ topics	Energy and Systems	Energy and systems Electricity	Electricity Particle Model of Mater	Particle Model of Mater	Atomic Structure	Atomic Structure
Key Knowledge	Associated equations and transfer between stores Link between work and energy Link between energy and power	Energy Dissipation Efficiency Energy Resources Current, Potential Difference and resistance Series and Parallel circuits,	Domestic uses and safety, The National Grid, Electrostatics* Changes of State and the particle model; Specific Heat Capacity and Specific Latent Heat	Internal energy and energy transfers, Pressure, Pressure in gases*	Further practice of previous particle model concepts. Atoms and Isotopes; Atoms and nuclear radiation;	Hazards and Uses of radioactive emissions Half-life; Background radiation; uses of nuclear radiation; Fission and Fusion*

*Separate physics only

Further information and reading list
<ul style="list-style-type: none"> AQA Trilogy (8464) or AQA Physics (8463) Specification CGP AQA Trilogy (8464) or CGP AQA Physics (8463) Revision Guides CGP AQA Trilogy (8464) or CGP AQA Physics (8463) Flashcards Educake Focus elearning BBC bitesize Physics maths tutor Savemyexams Freesciencelessons.co.uk Malmesbury Science Biology /Chemistry/ physics textbooks AQA Command words Subject specific vocabulary
Ways to support and extend student learning in this subject
<ul style="list-style-type: none"> All lesson resources available on google classroom Use Educake to reinforce key knowledge Pearsons target grade books. Trilogy Physics New scientist Trilogy past papers Physics past papers YouTube sites Christmas lectures Lesson PowerPoints and other resources are also put onto google classroom.