

Subject:

Physics (OCR H556)



HECKMONDWIKE
GRAMMAR SCHOOL

KS5 - Year 13 Curriculum Overview

	Topics being taught	What you will be assessed on	How you can support at home
Autumn Term	Thermal Physics Behaviour of Ideal Gases Charging and Discharging of Capacitors Electric Fields	Term 1 Stepping Stones • Thermal Physics • Electric Fields	Review Year 12 work on Electricity, Work and Power, and Materials Use the online PhET Gas Properties simulation
	Circular Motion Simple Harmonic Motion Magnetic Fields	Term 2 Mock Exam – one paper • Year 12 work • Thermal Physics • Capacitors	Watch the documentary "Order and Disorder" by Jim Al-Khalili Research the story of the Tacoma Narrows Bridge

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

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Spring Term	Gravitational Fields Particle Physics Radiation	Term 3 Stepping Stones • Simple Harmonic Motion • Radiation	Review Year 12 Work on Waves, Forces and Motion Watch "Wonders of the Universe" by Brian Cox
	Stars and Galaxies Nuclear Physics	Term 4 Mock Exam – Two Papers • Paper 1 – Module 3, Thermal Physics. Gases, SHM, Gravity • Paper 2 – Module 4, Capacitors. Electric Fields, Magnetic Fields, Radiation	Investigate the work and life of Ernest Rutherford Read "Smashing Physics" by Jon Butterworth

EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

	Topics being taught	What you will be assessed on	How you can support at home
Summer Term	Cosmology Medical Physics	Term 5 Stepping Stones • Synoptic Questions	Review Year 12 Work on Quantum and Newton's Laws Attempt exam questions and review mark schemes thoroughly
	Synoptic Question Exam Techniques	Term 6 Final Exams • Paper 1 – Module 3, 5 • Paper 2 – Module 4, 6 • Paper 3 – All content	Prepare flashcards and knowledge organisers Ensure you are aware of the tested content of all three papers