

Subject:

# Physics (AQA 8463)



HECKMONDWIKE  
GRAMMAR SCHOOL

## KS4 - Year 11 Curriculum Overview

	Topics being taught	What you will be assessed on	How you can support at home
Autumn Term	Resistance and Ohm's Law	Term 1 Stepping Stones <ul style="list-style-type: none"><li>Resistance of components</li><li>The Nuclear Model</li></ul>	Use the online PhET DC Circuit Lab to investigate circuits
	Circuit Rules	Term 2 Mock Exam <ul style="list-style-type: none"><li>Year 9 and 10 Physics</li><li>Electrical Circuits</li></ul>	Build small electrical circuits using hobby kits
	Mains Electricity		Use the Rutherford Scattering simulation on the PhET website
	The Model of The Atom		Research the work of Ernest Rutherford and the Curies

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Spring Term	Radiation and Nuclear Power	Term 3 Stepping Stones <ul style="list-style-type: none"><li>Nuclear Physics</li><li>Stars and Galaxies</li></ul>	Research nuclear accidents/incidents e.g., Chernobyl, Three Mile Island
	Electromagnetic Devices	Term 4 Mock Exam <ul style="list-style-type: none"><li>Year 9 and 10 Physics</li><li>Electrical Circuits, Radiation, Nuclear Power</li></ul>	Use apps like Google SkyMap to observe stars and planets
	Stars and Galaxies		Look at the news for images from the JWST
	The Big Bang		Read The Big Bang by Simon Singh

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Summer Term	Revision	Term 5 Stepping Stones <ul style="list-style-type: none"><li>Required Practical Methods</li></ul>	Attempt past paper questions from the AQA website
		Term 6 Final Exam <ul style="list-style-type: none"><li>Paper 1</li><li>Paper 2</li></ul>	Prepare flash cards and knowledge organisers
			Learn the methods for the ten required practical tasks
			Test students on definition and equation recall