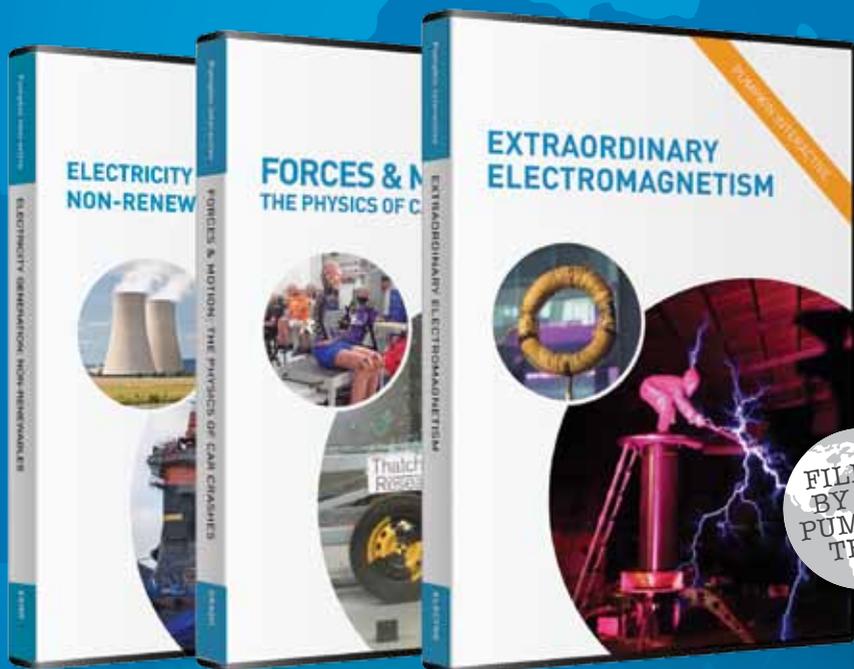


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NEW

## Extraordinary Electromagnetism

Code: **ELECTRO** 25 mins | 2015 | Age 14-18

Nearly two hundred years after Faraday wowed his audiences by demonstrating electromagnetic induction, this DVD takes a variety of exciting and contemporary examples through which to explain the principles behind the phenomenon that has made it possible to produce and distribute electrical energy on a large scale. The DVD covers: electric and magnetic fields, electromagnets, the motor effect and EM induction particularly concentrating on transformers and Tesla coils.



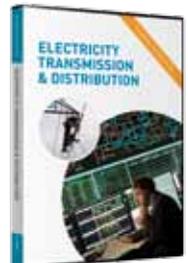
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NEW

## Electricity Transmission and Distribution

Code: **ELDIST** 28 mins | 2015 | Age 14-18

This resource looks at how electricity is distributed from power station to consumers along the National Grid. As well as giving an overview of the entire distribution network, it also looks at how step up and step down transformers are used to reduce line loss during transmission and make the voltage safe for use in homes. Other safety features, such as earth rods, insulators and circuit breakers are explained and this DVD gives an insight into how they play a part in larger scale systems.



# Electricity Generation – Non Renewables

Code: **EGNR** 27 mins | 2015 | Age 14-18

Fossil fuels and nuclear energy still account for over 60% of the UK's electricity generation and in some countries their use is even on the rise. As well as containing clear explanations and graphics to illustrate how energy from coal, gas and uranium is used to generate electricity, this resource explores the pros and cons of each fuel source. It includes debates around nuclear safety (including Fukushima and Chernobyl), fracking and carbon capture and storage. Used together with the "Electricity Generation: Renewables" DVD, it will provide students with a complete insight into current energy debates.



# Electricity Generation – Renewables

Code: **EGR** 44 mins | 2015 | Age 14-18

The drive to reduce greenhouse gas emissions means that many governments are trying to decarbonise electricity generation. But some renewables only generate electricity when conditions are right, they're also very location dependent and can often face opposition from local residents. From wind, to solar, biomass, HEP, tidal and geothermal power - as well as explaining how different renewables are used to generate electricity, this DVD examines the pros and cons of each energy source. Used together with the "Electricity Generation: Non-Renewables" DVD it will encourage students to consider whether 100% renewable electricity is realistic.

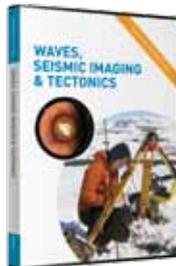




## Waves, Seismic Imaging and Tectonics

Code: **WAVE** 28 mins | 2015 | Age 14-18

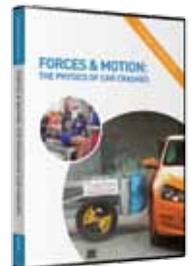
With exciting footage of earthquakes, engaging graphics and interviews with seismic survey teams this programme provides a fantastic introduction to waves and how they are used. The different types of waves are illustrated and the key terminology of amplitude, wavelength, frequency and period explained through clear graphics. The DVD then looks at how different waves behave depending on the nature of the material they are passing through. It shows how seismic survey teams make use of these differences in velocity, absorption, refraction and reflection to find out about underlying rock structures. The programme also explores how new evidence provided by the study of seismic waves has helped to develop plate tectonic theory and led to a greater understanding of earthquakes.



## Forces and Motion – the physics of car crashes

Code: **CRASH** 25 mins | 2015 | Age 14-18

Bring Newton's three laws of motion to life with this DVD that uses extraordinary slow motion HD footage filmed during car crash testing to explore how energy is distributed during the fractions of a second when cars crash. The DVD explores ideas of inertia, resultant forces, energy and momentum, but applies it in the real world context of designing air bags, crumple zones and seats to protect the passenger.



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