

WEVE GOT THE POWER: curriculum links

Ri school shows create excitement and engagement with science, that skilled teachers can exploit for the children's benefit. Show content can be linked to the following curriculum topics in the classroom:

KS1

Working scientifically

- Asking simple questions and recognizing that they can be answered in different ways
- Using their observations and ideas to suggest answers to questions

Physics

Everyday materials – identify everyday materials

KS₂

Physics

- Properties and changes of materials burning causes formation of new materials; conductors; reversible changes
- States of matter gases, materials changing state when heated
- Light light is reflected, light travels in straight lines
- **Electricity** identify common appliances that run on electricity; conductors; electrical circuits
- Forces and magnets magnetic forces

KS3

Physics

- **Energy** fuel and energy resources, energy transfer in burning fuels; total energy is the same before and after a change; closing an electric circuit creates energy transfer
- Matter internal energy stored in materials; difference between chemical and physical changes
- Light waves transmission of light waves through materials; different frequencies of light; light transferring energy
- **Electricity and Electromagnetism** current as a flow of charge; difference in resistance between conductive and insulating components; static electricity

Chemistry

- Chemical Reactions rearrangement of atoms
- Earth and Atmosphere composition of the atmosphere; impact of carbon dioxide on the climate; the carbon cycle; production of carbon by human activity and the impact on the climate
- Atoms, Elements and compounds Dalton atomic model; difference between atoms/elements/ compounds; chemical symbols and formulae for elements and compounds





WE'VE GOT THE POWER: key vocabulary

Sustainability Capacitor
Fuels Carbon dioxide

Energy Atmosphere Infrared

Greenhouse gas Electricity

Magnet Generator Electrons
Static electricity

Charge Battery Electrolysis

