



ENERGY LIVE: 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 England

Working scientifically

- Using observations and ideas to answer questions

Physics

- Sun safety, seasons and solar energy

Biology

- Plants need light
- Herbivores, carnivores, omnivores
- Food chains

KS3 England

Working scientifically

- Evaluating risks, health and safety
- SI derived units

Physics

- Internal energy stored in materials
- Contact forces and non-contact forces
- Total energy is the same before and after a change
- Electricity and circuits
- The sun, our star, seasons, day length.
- Field lines, principles of electromagnetism

Chemistry

- Charge - like charges repel
- Dalton's atom
- Chemical reactions
- Combustion

KS2 England

Physics

- Stretching and squashing things changes their shape
- Things fall due to gravity, friction forces
- How objects move on different surfaces
- Magnetic force can act over a distance
- Poles, attraction and repulsion
- Electricity and circuits
- How sounds are made - vibrations, volume vs strength of vibration

Chemistry

- Chemical changes
- Solids, liquids gases, The water cycle
- Chemical changes vs physical.
- burning - irreversible





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ENGLAND

ENERGY LIVE: key vocabulary

Energy Work Movement Heat

Store Gravitational

Magnetic Elastic Electrostatic

Nuclear Kinetic

Thermal Chemical Gravity

Magnet Radiation Generator

