

Unit Overview – Energy 1

You will learn about:

- Types of energy
- Energy transfers

Skill focus:

- Interpreting graphs



Key learning points		Key Words
State the types of energy		Power
Describe energy transfers		Watts
State the first law of thermodynamics- energy can not be made or destroyed only changed from one form to another		Kilowatts
Describe the potential energy and kinetic energy of falling objects		Energy resource
Describe how electricity is generated		Non-renewable
Explain the difference between renewable and non-renewable		Renewable
Explain how food is a fuel		Fossil fuels
Describe the 3 ways thermal energy can move		Thermal energy store
		Chemical energy store
		Kinetic energy store
		Gravitational potential energy store
		Elastic energy store
		Useful transfer
		Wasted transfer
		Dissipated

Links to other subjects:

Geography

- Energy resources
- Greenhouse effect
- Global warming

SMSC

- Discuss the impact individuals can have on the global warming and the moral decisions countries have to make.

Numeracy

- Using symbols to represent physical objects.
- Identifying trend and patterns.
- Use formulae to perform calculations.
- Using positive and negative values.

Literacy

- Construct descriptions and explanations.
- Identify advantages and disadvantages of two different solutions.
- Identify and describe evidence.