

Revision

Retrieval, keyword definitions and equation practice.

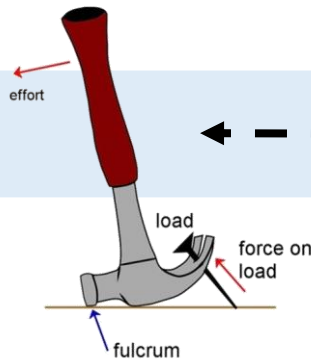
SCAN ME



Final assessment

Review of learning

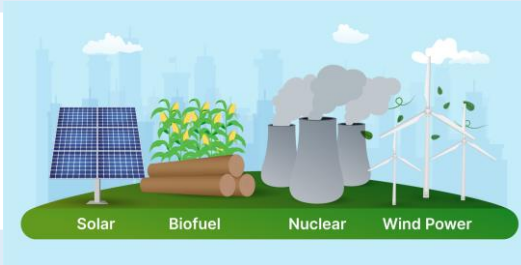
Work, energy, and machines
What are the advantages of using machines to do a job?



Energy and power

Why do some appliances cost more to run than others?

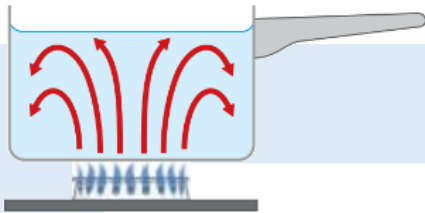
Fossil fuels are running out, alternative energy resources are required to meet energy demands



Energy resources
How is electricity generated by renewable and non-renewable energy resources?

Energy transfer: Radiation

Energy can also be transferred by Infrared radiation ('thermal radiation' or 'heat')



All objects emit radiation

Energy transfer: Particles
Energy can be transferred by conduction and convection.

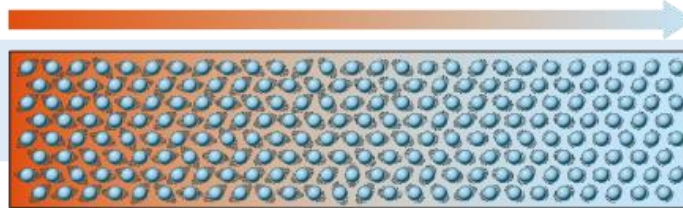
Metals are good conductors because they contain delocalised electrons

Energy and temperature

What is the difference between energy and temperature?

Energy adds up
Energy cannot be created or destroyed, only transferred from one form to another.

thermal store at a high temperature



thermal store at a low temperature

LESSON 1

Different activities use different amounts of energy

Food and fuels

Different foods are stores of different amounts of energy. How much energy do you need each day?

Apply:

- P2.3.3 Pressure in gases
- SP1 Braking distance and energy / kinetic energy
- SP3 Conservation of energy
- SP4 Waves (transferring energy)
- SP5 EM Spectrum
- SP8 Energy – forces doing work
- SP10 Electrical energy
- SP13 Transformers and energy
- SP15 SHC / extension and energy transfers
- 16+ The capacity for doing work (Energy systems)
- Strategies to secure future energy supplies
- Energy conservation technologies
- Energy and sustainability
- Energy levels and excitation



Retrieve:

- P1.2.2 Sound (sound and energy transfer)
- P1.3 Light
- P2.1 Electricity and magnetism

Make sure you can write definitions for these key terms.

absorb, chemical store, conduction, convection, equilibrium, fossil fuel, gear, greenhouse gas, infrared radiation, insulator, joule, kilowatt, kinetic energy, law of conservation of energy, lever, non renewable, radiation, power station, renewable, reflect, thermal energy, thermometer, work

Key terms

