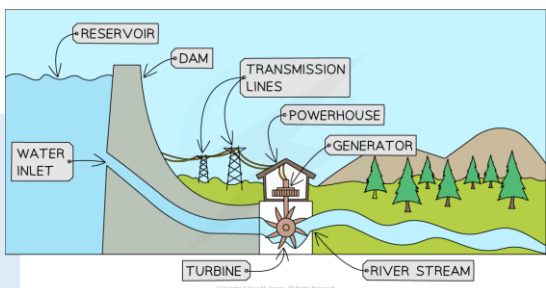


Assessment = ★

energy, joules, kilojoules, Sankey diagrams, energy transfers, efficiency, convection, radiation, insulation, thermal conductivity, kinetic energy, gravitational potential energy, fossil fuels, non-renewable energy resources, nuclear power

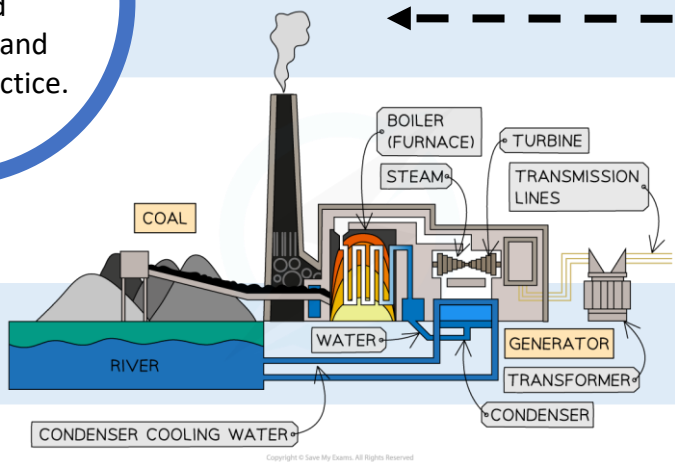
Make sure you can write definitions for these key terms.

Key terms



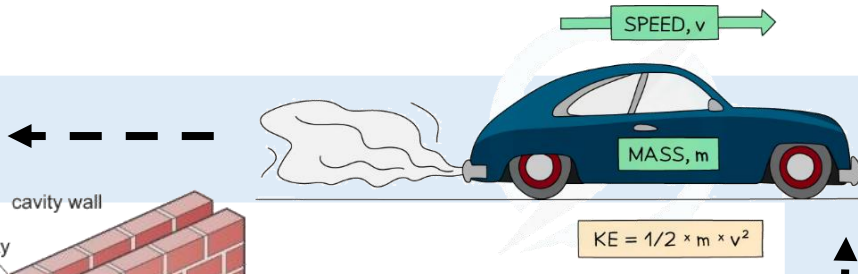
Final assessment
★
Review of learning

Revision
Retrieval, keyword definitions and equation practice.

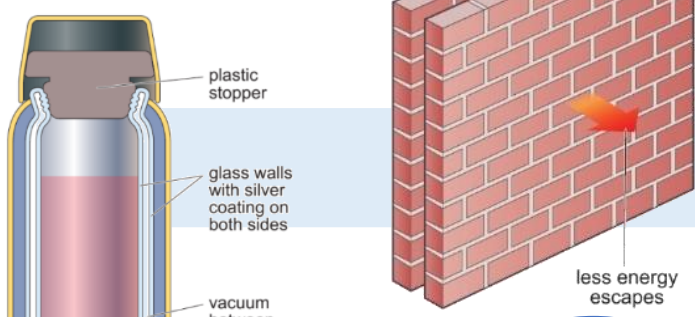
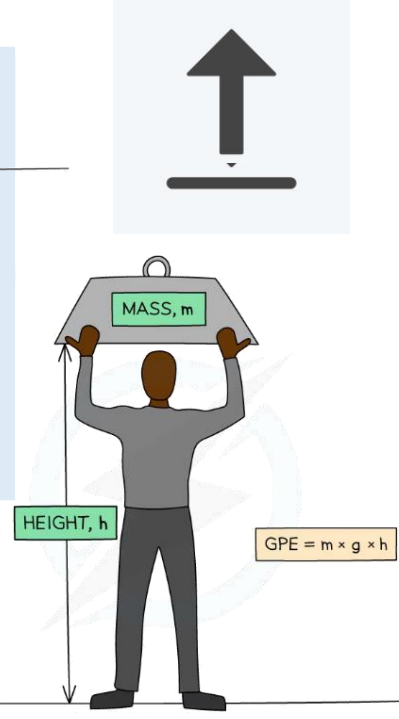


Renewable resources
How is the use of renewable energy resources changing?

Non-renewable resources
How are the different non-renewable resources used?



Stored energies
How do you calculate the kinetic energy and gravitational potential energy of an object?

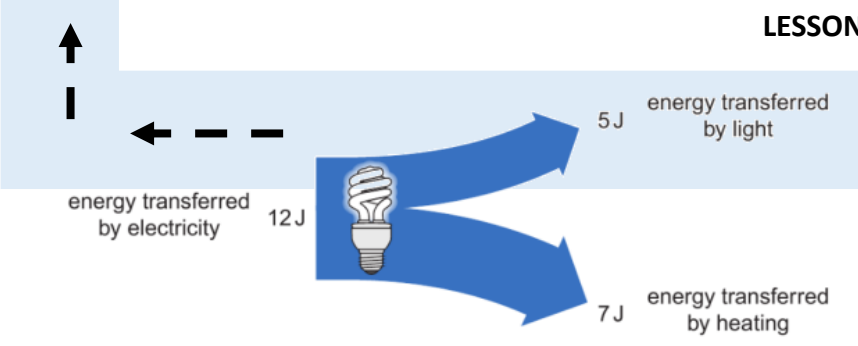


Keeping warm
What affects the rate at which buildings cool?

$$\text{EFFICIENCY} = \frac{\text{USEFUL ENERGY OUTPUT}}{\text{TOTAL ENERGY INPUT}} \times 100\%$$

Energy and efficiency
How do we calculate the efficiency of an energy transfer?

Energy cannot be created or destroyed, just transferred from one form to another



LESSON 1

Energy stores and transfers
How can we represent energy transfers in diagrams?

Apply:
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:
KS2 Sound and light
P1.2.2 Sound (Sound and energy transfer)
P1.3 Light
P2.1 Electricity
P2.2 Energy
P2.3.3 Pressure in gases
SP1 Braking distance and energy / kinetic energy