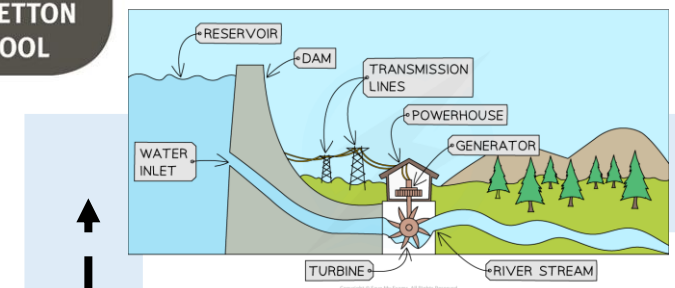
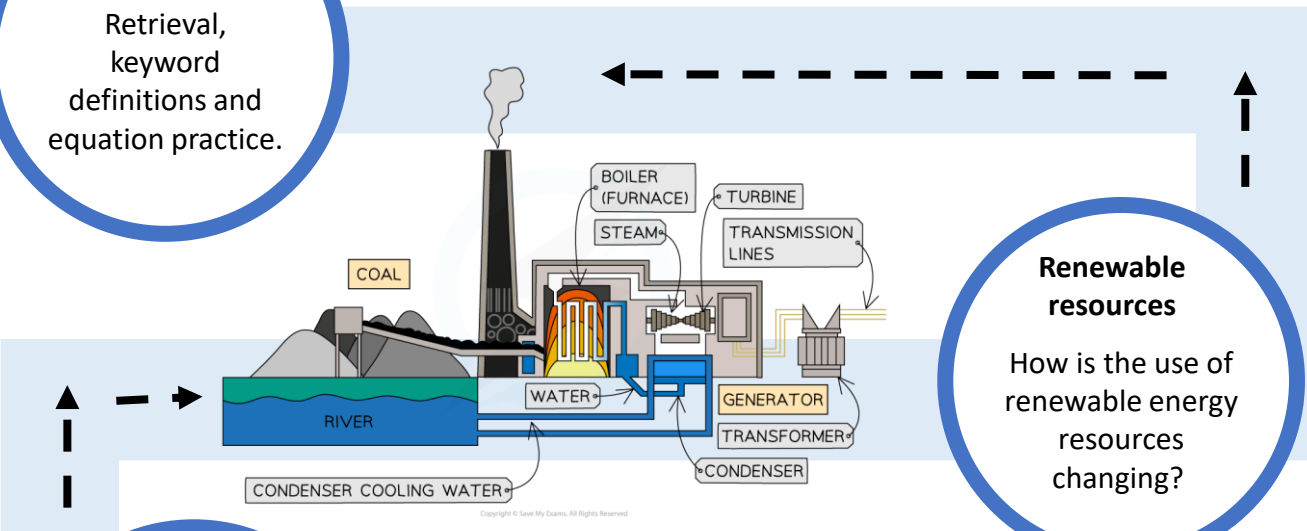


Key terms Make sure you can write definitions for these key terms.
 energy, joules, kilojoules, Sankey diagrams, energy transfers, efficiency, convection, conduction, radiation, insulation, thermal conductivity, kinetic energy, gravitational potential energy, fossil fuels, non-renewable energy resources, nuclear power



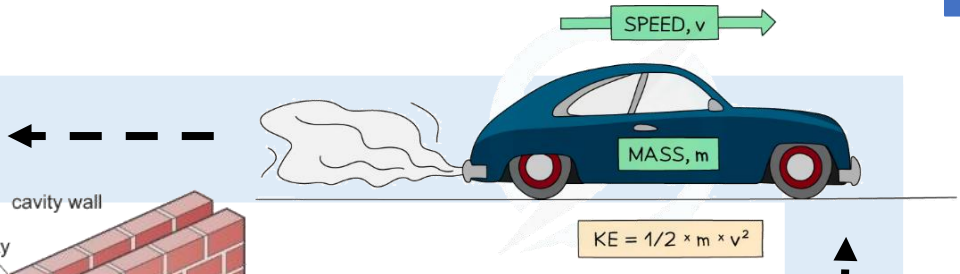
Final assessment
★
Review of learning

Revision
Retrieval, keyword definitions and equation practice.

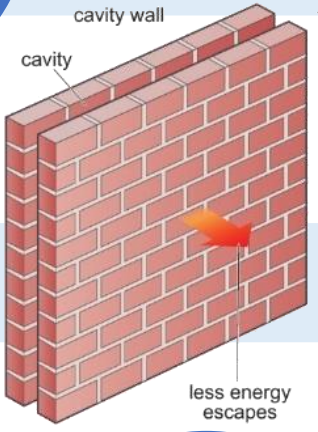
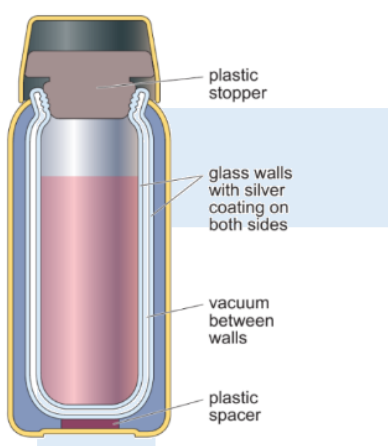
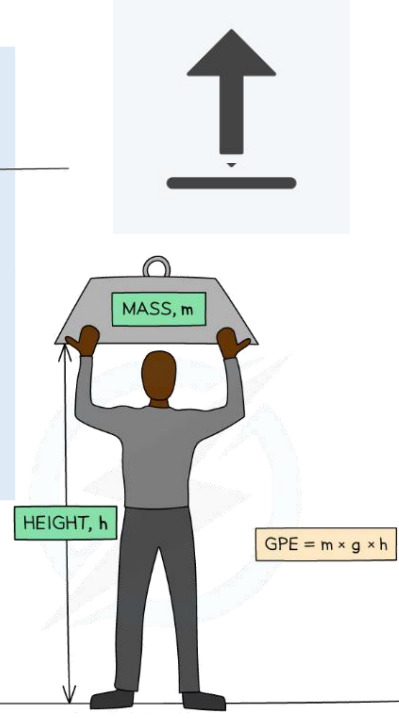


Renewable resources
How is the use of renewable energy resources changing?

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?

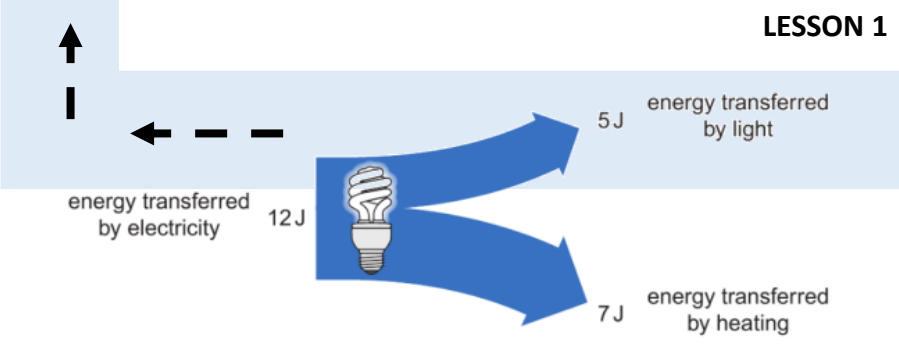


Keeping warm
What affects the rate at which buildings cool?

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

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

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



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