ENERGY

Mark on how confident you are with each topic and what you need to do, use this as a checklist for your revision notes and then to keep track of the topics you have revised. Tick and date once you have completed the tasks.

Topic	How confident am I?			KNOWLEDGE Definitions and Equations	I have made my revision notes on this topic	I have revised this topic	I am confident on this topic	Evidence
	 I could teach	 I would need to look at my notes	 I cann't remember					
Energy stores and conservation								
Energy and work				Work = Force x distance				
Changes in Energy				Useful and wasted energy				
Gravitational potential energy stores				PE = mass x gravitational field strength x change in height				
Kinetic energy				KE = ½ x mass x velocity^2				
Elastic potential energy stores				Elastic PE = ½ x spring constant (k) x extension^2				
Energy, power and efficiency				Power = Work/ time, Power = Energy/time Efficiency = useful energy output/ total energy input				
Energy transfer by conduction				Conductor, insulator, thermal conductivity				
Infrared radiation				Black body radiation, wavelength				
Practical 2 – Testing Insulators								
Specific heat capacity				Energy = mass x specific heat capacity (c) x change in temperature (ϑ)				
Practical 1 – Specific heat capacity								
Heating and Insulation								
Energy resources				Renewable energy				
Energy and environment				Greenhouse gases, reliability, radioactive waste, global warming, pollution, carbon capture, fossil fuels				