Y9 PHY	91 Harnessing Energy Learning Checklist	can do this already	Covered in Class	Strength or weakness?	Revised it?
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Energy	Developing: List eight forms of energy.				
transfers	Securing: describe common energy transfers.				
(Y7 revision) Conduction	Securing: explain how waster forms of energy are 'lost'.  Developing: draw accurate particle diagrams for solids, liquids and gases.				
Conduction	<b>Developing:</b> list examples of good and bad Thermal conductors.				
	<b>Developing:</b> Its examples of good and bad Thermal conductions. <b>Developing:</b> draw diagrams to explain the process of Thermal conduction.				
	Securing: explain using keywords what happens to particles during Thermal				
	conduction.				
	Extending: explain why solids conduct better than other states of matter.				
	Extending: explain why metals are very good Thermal conductors.				
Convection	<b>Developing:</b> explain what is meant by Convection.				
Convection	<b>Developing:</b> describe how Convection occurs in hot water tanks and radiators.				
	Securing: explain why Convection occurs using the concept of Density.				
	Extending: explain why Convection occurs using the Particle model.				
Radiation	<b>Developing:</b> explain why Infrared radiation can travel through space.				
	<b>Developing:</b> list examples of objects that give out Infrared radiation.				
	<b>Developing:</b> describe how different surfaces give out different amounts of Infrared				
	radiation.				
	Securing: describe how different surfaces absorb Infrared radiation.				
Making	<b>Developing:</b> describe how elecricity is generated.				
electricity	<b>Developing:</b> list ways to generate a larger amount of electricity using a generator.				
	Securing: describe two reasons why electricity is useful.				
Power stations	<b>Developing:</b> list the four main parts of a coal power station and describe the function				
	of each.				
	<b>Developing:</b> describe some of the energy transfers that take place within a power				
	station.				
	<b>Developing:</b> describe the rules for drawing Sankey diagrams.				
	<b>Developing:</b> describe in detail energy transfers that take place in a power station.				
	Securing: draw a correctly scaled and labelled Sankey diagram for a coal power				
	station.				
	<b>Extending:</b> compare the design of coal and gas power stations, explaining why gas is				
	more efficient.				
Nuclear power	<b>Developing:</b> correctly label a diagram of a nuclear power station.				
	<b>Developing:</b> identify similiarities and differences between fossil-fuel and nuclear				
	power stations.				
	Securing: describe advantages and disadvantages of nuclear power.				
	<b>Extending:</b> explain what happens during nuclear fission, and how control rods affect				
	this process.				