Year 10: ASK Yourself!

Subject: Chemistry Unit: 5 – Energy Changes

Chill 5 – Energy (Shanges	• • •		
	Launching	Developing	Progressing	Mastering
	1-2	3-4	5-6	7-9
C				
N kills				
	To be able to	To be able to	To be able to	To be able to
	select the	describe the	investigate	evaluate the
	apparatus needed.	procedure/techniq	variables	technique/process
	To be able to	ue and use the	that affects the	To be able to
	suggest a	measurements to	outcome.	suggest why the
	procedure/techniq	work out	To be able to	values obtained in
	ues and read	quantities.	recognise	the lab are
	measurements	To be able to	expressions in	usually (much)
	from different	recognise	standard form.	lower than the
	apparatus.	expressions in	To be able to use	true values.
	To be able to draw	standard form.	reaction profiles	To be able to
	simple reaction	To be able to	to identify	calculate energy
	profiles (energy	read	reactions as	changes in a
	level diagrams)	measurements	exothermic or	reaction using an
	To be able to	off a scale in a	endothermic.	energy level
	suggest hypothesis	practical context.	To be able to	profile
	to explain given		translate	
	observations.		information	
			between	
			numerical and	
			graphical form.	
nowledge				
	To be able to	To be able to	To be able to	To be able to
	identify	investigate	identify change in	explain and
	exothermic and	changes in	temperature.	evaluate the uses
	endothermic	temperature of	To be able to know	of exothermic and
	reactions from	different	variables that	endothermic
	temperature	reactions.	affect	reactions.
	changes.	To be able to	temperature	To be able to
	To be able to	recognise that	changes in reacting	explain how the
	identify examples	energy transfer	solutions.	variables
	of exothermic	during a reaction is	To be able to	investigated
	reactions.	due to bonds being	describe the	affect
	To be able to	broken and then	energy changes in	temperature
	describe batteries	new bonds being	bond breaking as	changes.
	as cells connected	made.	endothermic and	To be able to
	in series to provide	To be able to use	bond making as	explain the idea of
	greater voltage.	reaction profiles	exothermic and	activation energy.

	to identify	how to calculate	To be able to
	reactions as	overall energy	calculate the
	exothermic or	change.	energy
	endothermic.	To be able to	transferred in
	To be able to	evaluate the uses	chemical reactions
	explain how a	of cells and explain	using bond
	voltage can be	how rechargeable	energies.
	produced by	batteries are	To be able to
	metals in an	recharged.	explain that
	electrolyte	To be able to	alkaline batteries
	describe how a	explain the	are not
	fuel cell works.	processes in the	rechargeable.
		energy conversions	To be able to
		of a fuel cell.	evaluate the use of
			hydrogen fuel cells
			in comparison with
			rechargeable cells
			and batteries.