

Energy changes revision grid (Combined)

Content	RAG
Be able to distinguish between exothermic and endothermic reactions on the basis of the temperature change of the surroundings	
Be able to evaluate uses and applications of exothermic and endothermic reactions given appropriate information.	
Draw simple reaction profiles (energy level diagrams) for exothermic and endothermic reactions showing the relative energies of reactants and products, the activation energy and the overall energy change, with a curved line to show the energy as the reaction proceeds	
Be able to use reaction profiles to identify reactions as exothermic or endothermic	
Be able to explain that the activation energy is the energy needed for a reaction to occur.	
Be able to calculate the energy transferred in chemical reactions using bond energies supplied. (HT only)	
Be able to explain how a chemical cell works	
Be able to discuss what variables would affect the voltage produced by a chemical cell	
Be able to compare rechargeable and non-rechargeable chemical cells	
Be able to explain how a Hydrogen fuel cell works	
Be able to evaluate the use of Hydrogen fuel cells compared to rechargeable cells	
Be able to write the half equations for the electrode reactions in a Hydrogen fuel cell (HT only)	