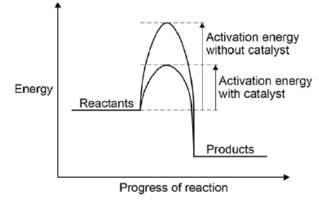


Section 3: Reversible Reactions	
14 Reversible react	A reaction in which the products can also form the reactants . Shown as: $A + B \Rightarrow C + D$
15 Exothermic	A reaction that releases heat to the environment.
16 Endothermic	A reaction that takes in heat from the environment.
17 Equilibrium (HT)	Equilibrium is reached when the forward and reverse reactions occur at exactly the same rate . Needs a sealed container .
18 Le Chatelier's Principle (HT)	If a system is at equilibrium and a change is made to any of the conditions, then the system responds to counteract the change .
Section 4: Changing conditions at equilibrium	
19 Changing	 If the temperature of a system at equilibrium is increased: the amount of products at equilibrium increases for an endothermic reaction the amount of products at equilibrium decreases for an exothermic reaction. If the temperature of a system at equilibrium is decreased: the amount of products at equilibrium decreases for an endothermic reaction the amount of products at equilibrium increases for an endothermic reaction.
20 Changing concentration (HT)	 If the concentration of a reactant is increased, more products will be formed. If the concentration of a product is decreased, more products will be formed.
21 Changing pressure (HT)	 For reactions of gases: an increase in pressure causes the reaction to favour the side with the smaller number of molecules (as shown by the symbol equation for that reaction). A decrease in pressure causes the reaction to favour the side with the larger number of molecules (as shown by the symbol equation for that reaction).



8 Energy profile diagram for a reaction with/ without a catalyst.