AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

Equilibrium Questions



Total Marks: /24

Reversible reactions and dynamic equilibrium Reversible reactions	
Q1: What is a reversible reaction?	
	(2 marks
Q2: How can the direction of a reversible reaction be changed?	
	(1 mark
Energy changes and reversible reactions	
Q3: Complete the sentences in regard to distribution of energy in reversible rea	actions.
f a reversible reaction isin one direction, it is other. Theamount of energy is transferred in each case.	in the
	(3 marks
Equilibrium	
Q4: If a reversible reaction occurs in apparatus which prevents the escape of re when would equilibrium be reached?	actants and products
	(2 marks
The effect of changing conditions on equilibrium	
Q5: If a system is at equilibrium and a change is made to any of the conditions, espond?	how does the system

Visit http://www.mathsmadeeasy.co.uk/ for more fantastic resources. Q6: Is the following statement true or false? Even if the concentration of one of the reactants or products is changed, the system remains at equilibrium. True/False Explain your answer. (2 marks) Q7: Using the boxes provided complete the diagram. Equilibrium is reached again Equilibrium is reached again If the concentration More products will If the concentration More reactants will of a reactant is be formed of a reactant is react increased decreased (4 marks)

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The effect of temperature changes on equilibrium

Q8: Complete the tables using the information in the boxes.

If the temperature of a system at equilibrium is increased:	If the temperature of a system at equilibrium is decreased:			
The relative amount of products at equilibrium increases for an exothermic reaction.	The relative amount of products at equilibrium decreases for an exothermic reaction.			
The relative amount of products at equilibrium	The relative amount of products at equilibrium			
increases for an endothermic reaction.	decreases for an endothermic reaction.			
	(4 marks)			
The effect of pressure changes on equilibrium				
Q9: For gaseous reactions at equilibrium, complete the following sentences.				
Anin pressure causes the equilibriumnumber of molecules.	position to shift towards the side with the			
Ain pressure causes the equilibriumnumber of molecules.	position to shift towards the side with the			
	(2 marks)			
Le Chatelier's Principle				
Q10: What is Le Chatelier's principle and why is it important?				
	(3 marks)			

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