AQA, OCR, Edexcel

## **GCSE Science**

## **GCSE Chemistry**

Equilibrium Questions



Total Marks: /24

Q1: What is a reversible reaction?	
	(2 marks
Q2: How can the direction of a reversible reaction be ch	anged?
	(1 mark
Energy changes and reversible reactions	
Q3: Complete the sentences in regard to distribution of	energy in reversible reactions.
f a reversible reaction isin one other. Theamount of energy is transferred	
	(3 marks
Equilibrium	
Q4: If a reversible reaction occurs in apparatus which pr when would equilibrium be reached?	events the escape of reactants 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, how does the system

Visit <a href="http://www.mathsmadeeasy.co.uk/">http://www.mathsmadeeasy.co.uk/</a> 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) Visit <a href="http://www.mathsmadeeasy.co.uk/">http://www.mathsmadeeasy.co.uk/</a> for more fantastic resources.

## 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 equilibrium position to shift towards the side with thenumber of molecules.	
	(2 marks)
Le Chatelier's Principle	
Q10: What is Le Chatelier's principle and why is it important?	
	(3 marks)

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