AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

Energy Changes
Questions



Total Marks: /32

nergy transfer during exothermic and endothermic reactions	
Q1: Throughout the course of a chemical reaction, explain what happens to the	energy.
	(1 mark
Q2: During a chemical reaction, if the energy is transferred to the surroundings, will the products have and why?	how much energy
Q3: What is an exothermic reaction?	(2 marks
	(2 marks
24: Give two examples of an exothermic reaction. 1. 2.	
Q5: Give an example of an everyday use of an exothermic reaction.	(2 marks
Q6: What is an endothermic reaction?	(1 mark
	(2 marks

૦૦: Give two exa	camples of endothermic reactions.	
1		
2		
		(2 marks)
પ્ર8: Give an exar	mple of an everyday use of an endothermic reaction.	
		(1 mark)
Reaction Profile	25	
etween particle	es.	
		(3 marks)
Q10: Define acti	ivation energy.	(3 marks)
Q10: Define acti	ivation energy.	(3 marks)
Q10: Define acti	ivation energy.	(3 marks)
Q10: Define acti	ivation energy.	
Q11: Complete a	a diagram to display an exothermic reaction. Draw an arrow to sh	
Q11: Complete a		
Q11: Complete a	a diagram to display an exothermic reaction. Draw an arrow to sh	
Q11: Complete a	a diagram to display an exothermic reaction. Draw an arrow to sh	 (2 marks)
Q11: Complete a hange and labe	a diagram to display an exothermic reaction. Draw an arrow to sh	 (2 marks)
Q11: Complete a hange and labe	a diagram to display an exothermic reaction. Draw an arrow to sh	 (2 marks)
Q11: Complete a	a diagram to display an exothermic reaction. Draw an arrow to sh	 (2 marks)
Q11: Complete a change and labe	a diagram to display an exothermic reaction. Draw an arrow to sh	 (2 marks)
Q11: Complete a hange and labe	a diagram to display an exothermic reaction. Draw an arrow to sh	 (2 marks)
change and labe	a diagram to display an exothermic reaction. Draw an arrow to sh	
Q11: Complete a change and labe	a diagram to display an exothermic reaction. Draw an arrow to sh	

Maths Made Easy © Complete Tuition Ltd 2017

Visit http://www.mathsmadeeasy.co.uk/ for more fantastic resources. Q12: Complete an energy level diagram for an endothermic reaction. Label on the activation energy and energy absorbed. Progress of reaction (3 marks) The energy change of reactions Q13: Complete the following sentences. Energy must be ______ to ______bonds in the _____. Energy is ______ when bonds in the _____ are formed. Supplied Break Reactants Released Products (5 marks) Q14: How is the overall energy change of a reaction calculated? (2 marks)

Maths Made Easy © Complete Tuition Ltd 2017

Visit http://www.mathsmadeeasy.co.uk/ for more fantastic resources.

Q15: Match the boxes.

The energy released from forming new bonds is greater than the energy needed to break existing bonds.

The energy needed to break existing bonds is greater than the energy released from forming new bonds.

Endothermic

Exothermic

(2 marks)