ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 15 · 5 QUESTIONS

Rates of Reaction and Energy Changes — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **A kite rises higher. What happens to the wind speed usually?**

- A it stays the same
- B it decreases
- C it increases
- D it becomes zero

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2 **A cup of coffee cools down. Energy is transferred to the surroundings. What type of change is this?**

A a chemical change

B a reversible reaction

C an energy transfer

D a neutralisation

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3 **In the combustion of methane, the energy needed to break the bonds is 1200 kJ and the energy released when new bonds form is 1600 kJ. What is the overall energy change?**

A 1600 kJ

B -400 kJ

C 400 kJ

D -1200 kJ

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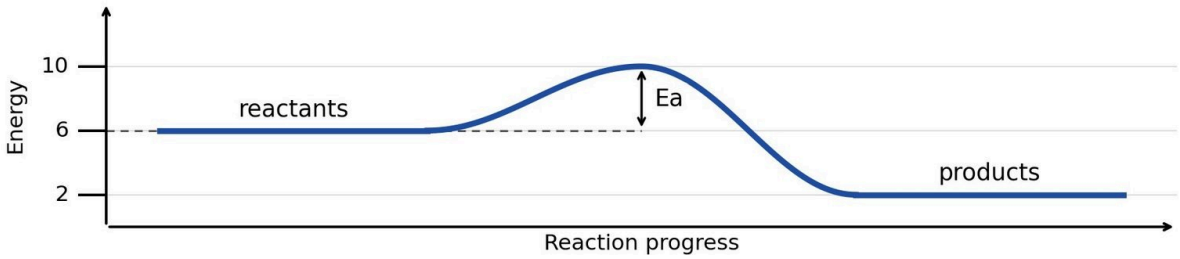
4 **The diagram shows the energy profile for a reaction. The reactants are at energy 6 and the products are at 2. Is the reaction exothermic or endothermic?**



A endothermic, energy is given out

B exothermic, energy is given out

C exothermic, energy is taken in

D endothermic, energy is taken in

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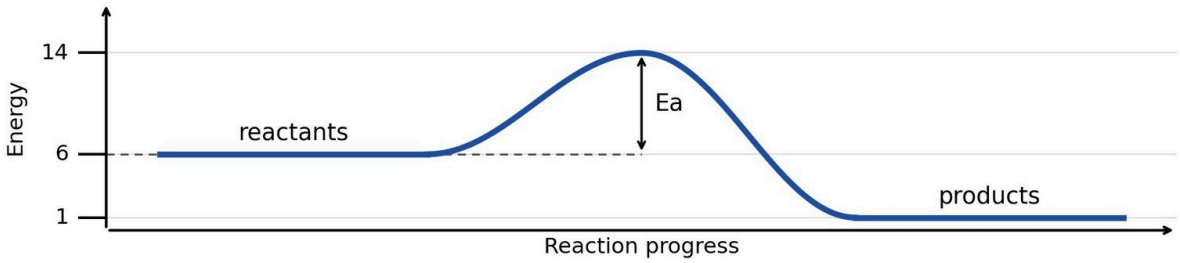
5 **The diagram shows the energy profile for a reaction. The reactants are at energy 6, the peak is at 14 and the products are at 1. What is the activation energy?**



A 20

B 8

C 13

D 5

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ANSWER KEY

1. C
2. C
3. B
4. B
5. B

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