ENGLAND GCSE CHEMISTRY AQA FOUNDATION · UNIT 5 · 10 QUESTIONS

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 **An ice cream cone is put in a freezer. What happens to the liquid?**

- A it evaporates
- B it freezes
- C it boils
- D it condenses

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2 **A sandwich contains bread and cheese. Where does digestion begin?**

- A in the small intestine
- B in the mouth
- C in the stomach
- D in the large intestine

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3 **In the combustion of methane, the energy needed to break the bonds is 800 kJ and the energy released when new bonds form is 1000 kJ. What is the overall energy change?**

- A 200 kJ
- B -800 kJ
- C -200 kJ
- D 1000 kJ

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4 **A chocolate cake is baked. Is baking a chemical change?**

- A sometimes
- B no
- C yes
- D never

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5 **A cheese pizza is cooked in an oven. How is energy transferred in the oven?**

A by radiation and convection

B by evaporation from the cheese

C by conduction only, through the tray

D by condensation on the oven walls

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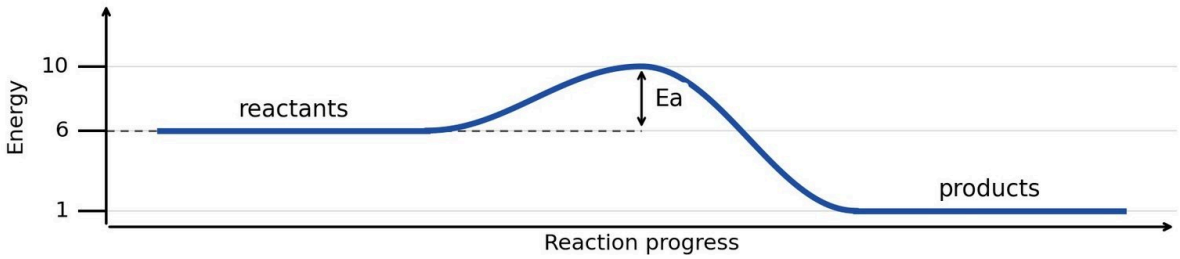
6 **The diagram shows the energy profile for a reaction. The reactants are at energy 6, the peak is at 10 and the products are at 1. What is the activation energy?**



A 9

B 16

C 5

D 4

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7 **What is one disadvantage of hydrogen fuel cells?**

A they use a lot of water

B they make carbon dioxide

C they are noisy when running

D hydrogen is hard to store

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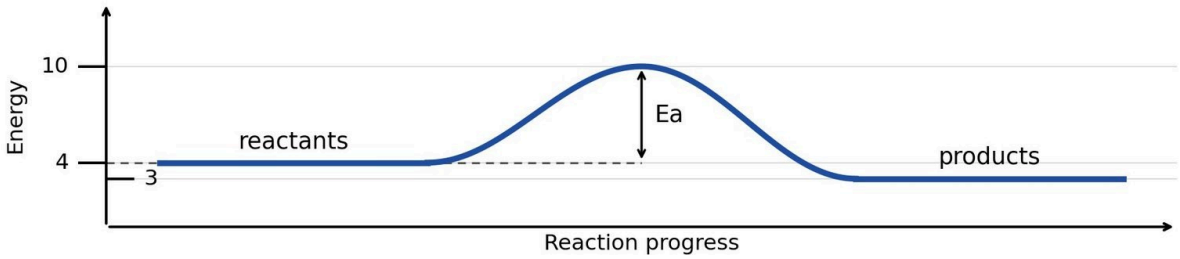
8 **The diagram shows the energy profile for a reaction. The reactants are at energy 4, the peak is at 10 and the products are at 3. What is the activation energy?**



A 7

B 1

C 14

D 6

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9 **What are the reactants in a hydrogen fuel cell?**

A oxygen and nitrogen

B hydrogen and carbon dioxide

C hydrogen and oxygen

D hydrogen and nitrogen

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10 **A student heats 200 g of water. Its temperature rises by 10 degrees Celsius. The specific heat capacity of water is 4.2 joules per gram per degree Celsius. How much energy is transferred to the water in kilojoules?**

A 84 kJ

B 0.84 kJ

C 16.8 kJ

D 8.4 kJ

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ANSWER KEY

1. B
2. B
3. C
4. C
5. A
6. D
7. D
8. D
9. C
10. D

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