ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 12 · 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 **A cheese pizza provides energy. Which nutrient provides most energy?**

- A fat
- B vitamins
- C fibre
- D protein

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

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

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

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

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4 **A cup of coffee is hot. How is energy transferred to the air?**

- A by condensation on the cold cup
- B by conduction and convection
- C by evaporation only, from the top
- D by radiation only, from the surface

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5

In a reaction, the energy needed to break bonds is 1000 kJ and the energy released making bonds is 600 kJ. Is the reaction exothermic or endothermic?

A endothermic, more energy is taken in

B exothermic, more energy is given out

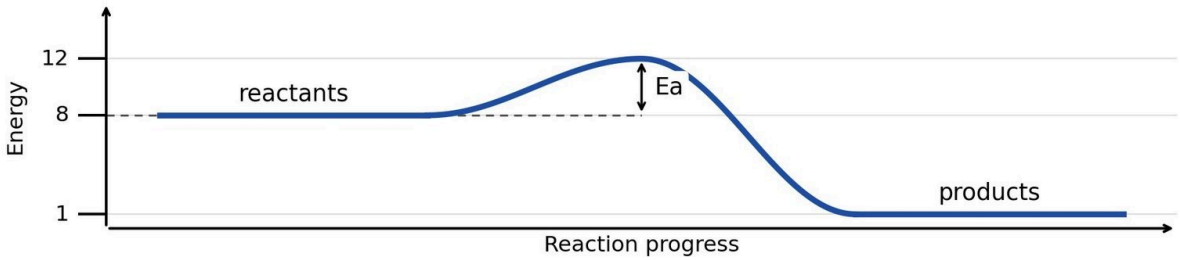
C endothermic, more energy is given out

D exothermic, more energy is taken in

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6 **The diagram shows the energy profile for a reaction. The reactants are at energy 8 and the products are at 1. Is the reaction exothermic or endothermic?**



A exothermic, energy is given out

B exothermic, energy is taken in

C endothermic, energy is given out

D endothermic, energy is taken in

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7 **Which of these is exothermic?**

A photosynthesis

B burning a fuel

C melting ice

D dissolving ammonium nitrate

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8 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

A 0

B 10

C 100

D 32

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9 **In a reaction, the energy needed to break bonds is 1200 kJ and the energy released making bonds is 1400 kJ. What is the overall energy change?**

- A -1200 kJ
- B 1400 kJ
- C 200 kJ
- D -200 kJ

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10 **A sandwich provides energy. Which process releases energy from food in cells?**

- A fermentation
- B digestion
- C respiration
- D photosynthesis

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ANSWER KEY

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

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