ENGLAND GCSE CHEMISTRY OCR TWENTY FIRST CENTURY HIGHER · UNIT 1 · 10 QUESTIONS

Air and Water — 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 cup of coffee is left for an hour. What happens to its temperature?**

- A it rises above room temperature
- B it falls to room temperature
- C it falls to zero degrees
- D it stays the same all day

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2 **An ice cream cone melts in the Sun. What is happening to the particles in the ice cream?**

- A they get smaller
- B they gain energy and move more
- C they lose energy and slow down a lot
- D they stop moving

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3 **How do humans increase carbon dioxide?**

A by recycling waste

B by planting trees

C by using solar power to make electricity

D by burning fossil fuels

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4 **How do scientists know carbon dioxide levels are rising?**

A they measure the air

B they weigh the oceans

C they measure the sunlight

D they count the trees

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5 **Oxygen is 21 percent of the air. How much oxygen is there in 500 litres of air?**

- A 210 L
- B 115 L
- C 95 L
- D 105 L

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6 **A river provides drinking water. Why must the water be treated before drinking?**

- A to add minerals for health
- B to make it taste better for drinking
- C to heat it up for use
- D to remove harmful substances

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7 **A swimming pool is filled with water. What is the density of water?**

A about 1 kilogram per cubic metre

B about 100 kilograms per cubic metre, roughly

C about 10 kilograms per cubic metre

D about 1000 kilograms per cubic metre

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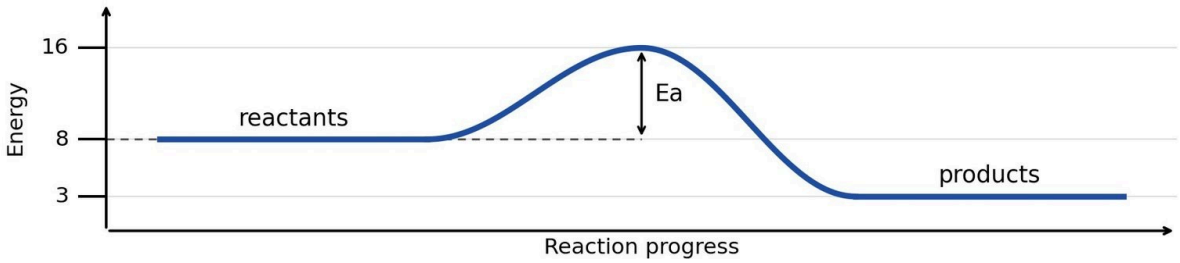
8 **The diagram shows the energy profile for a reaction. The reactants are at energy 8, the peak is at 16 and the products are at 3. What is the activation energy?**



A 13

B 24

C 5

D 8

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9 **What did volcanoes release into the early atmosphere?**

A oxygen and nitrogen gases from the air

B argon and helium gases from deep down

C nitrogen and oxygen gases from the air

D water vapour and carbon dioxide

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10 **What is the first step in treating water?**

A adding fluoride

B chlorination

C filtration

D boiling

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ANSWER KEY

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

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