ENGLAND GCSE CHEMISTRY OCR TWENTY FIRST CENTURY FOUNDATION · 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 forest absorbs carbon dioxide. Which process does this?**

- A decomposition in the soil
- B respiration in the trees
- C photosynthesis
- D combustion of the wood

Understand It with Pulse | Flag a mistake

2 **A sunflower makes glucose in its leaves. Which gas does it take in for photosynthesis?**

- A hydrogen gas from the air
- B oxygen gas from the air
- C nitrogen gas from the air
- D carbon dioxide

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

- A filtration
- B adding fluoride
- C chlorination
- D boiling

Understand It with Pulse | Flag a mistake

5 **What happens to the temperature during an endothermic reaction?**

- A it rises then falls
- B it falls
- C it rises
- D it stays the same

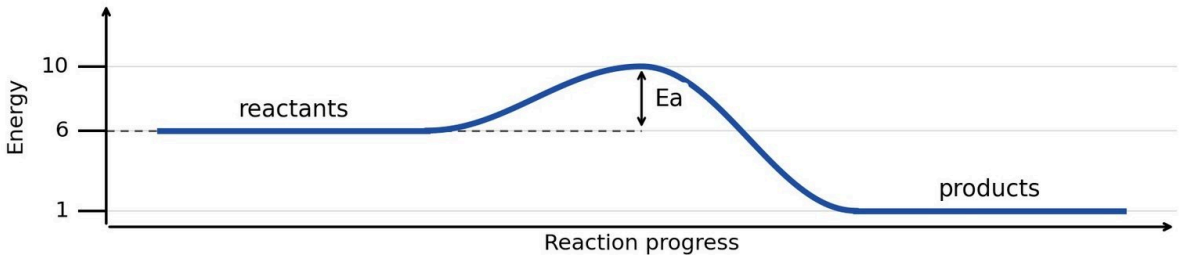
Understand It with Pulse | Flag a mistake

6 **What is the ozone layer?**

- A a layer that absorbs visible light
- B a layer that absorbs infrared
- C a layer that absorbs sound
- D a layer that absorbs ultraviolet

Understand It with Pulse | Flag a mistake

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



A endothermic, energy is given out

B exothermic, energy is taken in

C exothermic, energy is given out

D endothermic, energy is taken in

Understand It with Pulse | Flag a mistake

8 **Which gases are greenhouse gases?**

A oxygen and water vapour only

B nitrogen and argon

C carbon dioxide and methane

D oxygen and nitrogen in the air

Understand It with Pulse | Flag a mistake

9 **Why is waste water treated before it is released?**

A to add nutrients to it

B to heat it up for release

C to stop it harming rivers

D to make it safe to drink

Understand It with Pulse | Flag a mistake

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

A argon and helium gases from deep down

B water vapour and carbon dioxide

C nitrogen and oxygen gases from the air

D oxygen and nitrogen gases from the air

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.