ENGLAND GCSE COMBINED SCIENCE AQA SYNERGY HIGHER · UNIT 4 · 10 QUESTIONS

Explaining Change — 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 provides a habitat. What does habitat mean?**

- A when an organism sleeps
- B what an organism eats
- C how an organism breeds
- D where an organism lives

Understand It with Pulse | Flag a mistake

2 **A cup of coffee is left for an hour. What happens to its temperature?**

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

Understand It with Pulse | Flag a mistake

3 **Which of these is endothermic?**

A neutralisation

B respiration

C photosynthesis

D burning a fuel

Understand It with Pulse | Flag a mistake

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

A nitrogen gas from the air

B hydrogen gas from the air

C carbon dioxide

D oxygen gas from the air

Understand It with Pulse | Flag a mistake

5 **What is natural selection?**

A survival of the best adapted

B breeding by humans

C survival of the strongest only

D random extinction

Understand It with Pulse | Flag a mistake

6 **What is one effect of climate change?**

A the air getting cleaner

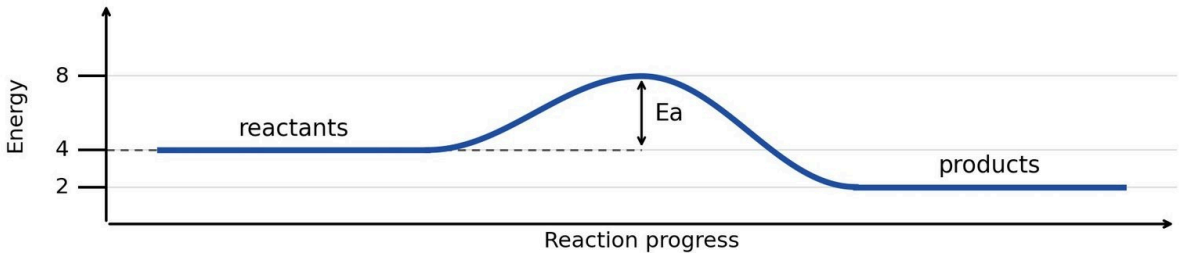
B colder winters everywhere

C less rain everywhere

D sea levels rising

Understand It with Pulse | Flag a mistake

7 **The diagram shows the energy profile for a reaction. The reactants are at energy 4, the peak is at 8 and the products are at 2. What is the activation energy?**



A 4

B 2

C 6

D 12

Understand It with Pulse | Flag a mistake

8 **Two pea plants with genotype Bb are crossed. What fraction of the offspring will show the recessive trait?**

- A 1/2
- B 1/4
- C 3/4
- D 1

Understand It with Pulse | Flag a mistake

9 **In a reaction, the energy needed to break bonds is 1200 kJ and the energy released making bonds is 1600 kJ. What is the overall energy change?**

- A 400 kJ
- B -1200 kJ
- C 1600 kJ
- D -400 kJ

Understand It with Pulse | Flag a mistake

10 **Rabbits with white fur survive better in snow. What is this an example of?**

A natural selection

B mutation

C extinction

D artificial selection

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.