ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 9 · 10 QUESTIONS

Ecosystems and Material Cycles — 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 **Rabbits breed quickly. What does this mean for the population?**

- A it always falls
- B it always stays small
- C it can grow fast
- D it never changes

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

3 **Quadrat counts of daisies are 4, 6 and 5. What is the mean count?**

- A 4
- B 6
- C 15
- D 5

Understand It with Pulse | Flag a mistake

4 **What do decomposers return to the soil?**

A carbon dioxide

B oxygen

C water

D nutrients

Understand It with Pulse | Flag a mistake

5 **Seabirds eat fish. What trophic level are the seabirds?**

A secondary consumers

B primary consumers, eating producers

C decomposers, breaking down dead matter

D producers, making their own food

Understand It with Pulse | Flag a mistake

6 **Which factors affect the rate of decay?**

- A soil type, light and wind
- B temperature, water and oxygen
- C rain, snow and frost only
- D light, temperature and carbon dioxide

Understand It with Pulse | Flag a mistake

7 **Producers in a food chain hold 10000 kJ of energy. About 10 percent passes to the primary consumers. How much energy reaches them?**

- A 500 kJ
- B 10000 kJ
- C 1000 kJ
- D 2000 kJ

Understand It with Pulse | Flag a mistake

8 **Fishing boats float on water. Why do they float?**

A they displace enough water

B they are heavy and sink slowly

C they are made of metal, which floats

D they have sails that catch the wind

Understand It with Pulse | Flag a mistake

9 **A field has 2000 kg of grass. If 5 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

A 100 kg

B 1000 kg

C 200 kg

D 50 kg

Understand It with Pulse | Flag a mistake

10 **Producers in a food chain have a biomass of 10000 kg. About 10 per cent of biomass passes to the next level. What is the biomass of the primary consumers?**

A 10000

B 2000

C 1000

D 100

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.