ENGLAND GCSE COMBINED SCIENCE AQA SYNERGY HIGHER · UNIT 1 · 10 QUESTIONS

Building Blocks — 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 swimming pool is filled with water. What is the density of water?**

- A about 1 kilogram per cubic metre
- B about 10 kilograms per cubic metre
- C about 100 kilograms per cubic metre, roughly
- D about 1000 kilograms per cubic metre

Understand It with Pulse | Flag a mistake

2 **Eggs contain protein. Which part of the egg is mostly protein?**

- A the yolk
- B the air sac
- C the shell
- D the white

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3 **Which particle has a positive charge?**

- A the electron
- B the neutron
- C the nucleus
- D the proton

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4 **A cell is 15 mm long in a photograph. Its real length is 40 micrometres. What is the magnification?**

- A × 375
- B × 750
- C × 3750
- D × 37

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5 **Glass marbles are shaken in a tray. What does this model?**

- A particles bonding together
- B particles disappearing completely
- C particles freezing into place
- D particles gaining energy

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

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

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7 **Potatoes left in salty water go soft. Why?**

A salt enters the cells

B the cells divide

C water leaves the cells

D water enters the cells

Understand It with Pulse | Flag a mistake

8 **A hot air balloon rises because the air inside it is less dense than the air outside. What happens to the density of air when it is heated?**

A it stays the same

B it increases

C it becomes zero

D it decreases

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9 **A guitar string is tightened. What happens to the pitch?**

A it disappears

B it falls

C it stays the same

D it rises

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10 **Which cell contains chloroplasts?**

A a muscle cell

B a red blood cell

C a nerve cell

D a leaf cell

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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