ENGLAND GCSE COMBINED SCIENCE AQA SYNERGY FOUNDATION · 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 holds water. Why does a person float in the pool?**

- A the water pushes them down
- B they are made of air
- C their density is close to water
- D they are heavier than water and sink

Understand It with Pulse | Flag a mistake

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

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

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3 **Hens' eggs have a large yolk. The yolk is one very large cell. Which part of the cell is the yolk?**

- A the cell membrane, controlling what enters
- B the nucleus
- C the cytoplasm with stored food
- D the mitochondria

Understand It with Pulse | Flag a mistake

4 **A hot air balloon is filled with hot air. Why does it rise?**

- A hot air has no mass
- B hot air is colder
- C hot air is less dense
- D hot air is heavier than cold air

Understand It with Pulse | Flag a mistake

5 **In osmosis, water moves from where to where?**

A dilute to concentrated solution

B cell to soil

C hot to cold water

D concentrated to dilute solution

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6 **Which part of a cell controls all the activities of the cell?**

A the cytoplasm

B the nucleus

C the vacuole

D the cell membrane

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7 **An atom has 19 protons and 10 neutrons. What is its mass number?**

A 19

B 31

C 10

D 29

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8 **Why does oxygen diffuse from the lungs into the blood?**

A the blood pumps it in

B oxygen is less concentrated in the lungs

C the lungs are warmer

D oxygen is more concentrated in the lungs

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9 **Which cell contains chloroplasts?**

A a nerve cell

B a muscle cell

C a leaf cell

D a red blood cell

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10 **What is the mass of an electron compared with a proton?**

A much larger

B very small

C zero

D about the same

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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