ENGLAND GCSE CHEMISTRY AQA HIGHER · UNIT 1 · 10 QUESTIONS

Atomic Structure and the Periodic Table — 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 thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- **A** it contracts
- **B** it expands
- **C** it evaporates
- **D** it freezes

Understand It with Pulse | Flag a mistake

2 **An ice cream cone is put in a freezer. What happens to the liquid?**

A it evaporates

B it boils

C it freezes

D it condenses

Understand It with Pulse | Flag a mistake

3 **An element, copper, has isotopes. 69 percent have a mass of 63 and 31 percent have a mass of 65. What is the relative atomic mass of copper?**

A 62.6

B 64.6

C 64.1

D 63.6

Understand It with Pulse | Flag a mistake

4 **Which of these is a non-metal?**

A sulfur

B sodium

C copper

D iron

Understand It with Pulse | Flag a mistake

5 **What is the electronic structure of fluorine (atomic number 9)?**

A 2,7,1

B 2,6

C 2,8

D 2,7

Understand It with Pulse | Flag a mistake

6 **Do isotopes of the same element have the same mass number?**

A yes, they are identical in every way

B yes, their mass numbers are the same

C no, their proton numbers differ

D no, their mass numbers differ

Understand It with Pulse | Flag a mistake

7 **Silver coins are made of a metal. Which property do metals have?**

A they dissolve in water

B they conduct electricity

C they do not conduct electricity at all

D they are brittle

Understand It with Pulse | Flag a mistake

8 **What is the centre of an atom called?**

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

Understand It with Pulse | Flag a mistake

9 **An atom has 6 protons and 20 neutrons. What is its mass number?**

- A 6
- B 20
- C 26
- D 28

Understand It with Pulse | Flag a mistake

10 **What did Newlands notice about the elements?**

A the elements fell into groups of three with matching properties

B every element had a different mass

C the lightest elements were all gases

D every eighth element had similar properties

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.