ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 10 · 10 QUESTIONS

Key Concepts in Chemistry — 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 **Silver coins are made of a metal. Which property do metals have?**

- A they conduct electricity
- B they do not conduct electricity at all
- C they dissolve in water
- D they are brittle

Understand It with Pulse | Flag a mistake

2 **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 decreases
- B it stays the same
- C it becomes zero
- D it increases

Understand It with Pulse | Flag a mistake

3 **Which particle has no charge?**

A the electron

B the neutron

C the nucleus

D the proton

Understand It with Pulse | Flag a mistake

4 **Which of these is a typical property of a metal?**

A it is brittle

B it is dull

C it does not conduct heat

D it conducts electricity

Understand It with Pulse | Flag a mistake

5 **An atom has 11 protons and 6 neutrons. What is its mass number?**

- A 17
- B 11
- C 6
- D 19

Understand It with Pulse | Flag a mistake

6 **How many moles are there in 40 g of a substance with a relative formula mass of 40?**

- A 2
- B 3
- C 1
- D 0.5

Understand It with Pulse | Flag a mistake

7 **An element is in period 2 of the periodic table. How many electron shells do its atoms have?**

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

Understand It with Pulse | Flag a mistake

8 **A reaction makes 40 g of useful product from 80 g of reactants in total. What is the atom economy?**

- A 50%
- B 25%
- C 150%
- D 100%

Understand It with Pulse | Flag a mistake

9 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

- A 32
- B 100
- C 0
- D 10

Understand It with Pulse | Flag a mistake

10 **What is the formula of methane?**

- A CH_4
- B CH_2
- C CH_3
- D C_2H_4

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.