ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · UNIT 9 · 10 QUESTIONS

Bonding, Structure, and the Properties of Matter — 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 chocolate cake is baked. Is baking a chemical change?**

- A never
- B no
- C yes
- D sometimes

Understand It with Pulse | Flag a mistake

2 **Glass marbles in a tray are used as a model for particles in a solid. What do the marbles show?**

- A particles move freely through space
- B particles flow past each other easily
- C particles are far apart from each other
- D particles vibrate in fixed positions

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3 **An atom has 17 protons. How many electrons does the neutral atom have?**

- A 19
- B 16
- C 18
- D 17

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4 **In which state are the particles closest together?**

A gas

B liquid

C plasma

D solid

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5 **How does sodium form an ion?**

A it gains one electron

B it shares one electron

C it loses two electrons

D it loses one electron

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6 **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 decreases
- D it becomes zero

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7 **What type of bonding is in diamond?**

- A covalent
- B ionic
- C metallic
- D intermolecular forces

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

A they are brittle

B they do not conduct electricity at all

C they dissolve in water

D they conduct electricity

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9 **How does chlorine form an ion?**

A it shares one electron

B it loses one electron

C it gains two electrons

D it gains one electron

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10 **Paintbrushes are used with paint. What is paint an example of?**

A an element

B a compound

C a formulation

D a pure substance

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ANSWER KEY

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

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