ENGLAND GCSE CHEMISTRY OCR GATEWAY FOUNDATION · UNIT 2 · 10 QUESTIONS

# Elements, Compounds and Mixtures — 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 hot air balloon is filled with hot air. Why does it rise?**

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

Understand It with Pulse | Flag a mistake

2 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

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

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3 **What does it mean if a chromatogram shows several spots?**

- A the sample is a pure substance
- B the paper is too short
- C the sample is a mixture
- D the solvent is impure

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4 **In a chromatogram, a spot moves 4 cm and the solvent moves 12 cm. What is the Rf value?**

- A 0.67
- B 0.33
- C 0.48
- D 0.43

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5 **How do you test for sulfate ions?**

- A a glowing splint relights brightly
- B limewater turns cloudy white
- C silver nitrate gives a yellow precipitate
- D barium chloride gives a white precipitate

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6 **What type of bonding is in copper?**

A intermolecular forces

B covalent

C metallic

D ionic

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

A it boils

B it condenses

C it freezes

D it evaporates

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8 **Glass marbles are used to model atoms. What is a limitation of the model?**

A marbles are much bigger than atoms

B marbles cannot be counted accurately at all

C marbles are the wrong colour for atoms

D marbles are too small to see properly

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9 **Silver coins conduct electricity well. Why?**

A they are heavy

B they are shiny and reflective

C they are cold

D they have free electrons

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

A a pure substance

B a formulation

C a compound

D an element

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# ANSWER KEY

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

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