ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · UNIT 8 · 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 **Silver coins conduct electricity well. Why?**

- **A** they are heavy
- **B** they have free electrons
- **C** they are cold
- **D** they are shiny and reflective

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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 increases

B it becomes zero

C it stays the same

D it decreases

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3 **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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4 **Paintbrushes are cleaned in water. Why does the paint wash off?**

A the paint dissolves

B the paint freezes in the water

C the paint melts in the water

D the paint burns in the water

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5 **What is the test for oxygen?**

A a glowing splint relights

B a lighted splint pops

C bromine water turns colourless

D limewater turns cloudy

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6 **What is a covalent bond?**

A a shared pair of electrons

B a sea of electrons

C an attraction between molecules

D an attraction between ions

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7 **Lemons contain citric acid. What is the pH of lemon juice likely to be?**

A 2

B 12

C 14

D 7

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8

Why does graphite feel slippery?

A strong covalent bonds join its layers

B its atoms are not joined at all

C weak forces hold its layers together

D it is made of separate molecules

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9

How do you test for sulfate ions?

A a glowing splint relights brightly

B silver nitrate gives a yellow precipitate

C limewater turns cloudy white

D barium chloride gives a white precipitate

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10 **Why is pure gold mixed with other metals for jewellery?**

A pure gold is too dull in colour

B pure gold is too hard to shape

C pure gold melts too easily

D pure gold is too soft

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ANSWER KEY

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

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