ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY HIGHER · 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

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

2 **Silver coins are made of the element silver. What is the chemical symbol for silver?**

- A Ag
- B Sv
- C S
- D Si

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3 **Which of these is a formulation?**

- A water
- B paint
- C oxygen
- D salt

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4 **In chromatography, what is the stationary phase?**

A the spots

B the ruler

C the paper

D the solvent

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5 **Lemons taste sour. What does sour taste show?**

A an acid is present

B an alkali is present

C a salt is present

D a metal is present

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6 **What is the formula of carbon dioxide?**

A CO

B CO_3

C C_2O

D CO_2

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

A limewater turns cloudy

B a glowing splint relights

C bromine water turns colourless

D a lighted splint pops

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

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

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9 **What is flame emission spectroscopy?**

- A measuring the temperature of a flame
- B counting the colours in a flame
- C weighing the sample in a flame
- D analysing the light from a flame

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

A a pure substance

B a compound

C a formulation

D an element

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ANSWER KEY

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

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