ENGLAND GCSE CHEMISTRY OCR GATEWAY HIGHER · UNIT 4 · 10 QUESTIONS

Predicting and Identifying Reactions and Products — 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 cup of coffee cools down. Energy is transferred to the surroundings. What type of change is this?

A a reversible reaction

B an energy transfer

C a neutralisation

D a chemical change

Understand It with Pulse

Flag a mistake

2 **An ice cream cone melts. What is the melting point of the ice cream?**

A around 100 degrees Celsius

B around 0 degrees Celsius

C around minus 20 degrees Celsius

D around 37 degrees Celsius

Understand It with Pulse | Flag a mistake

3 **What happens to equilibrium if the temperature rises?**

A it moves to take in heat

B it stays in the same place

C the reaction stops

D it moves to give out heat

Understand It with Pulse | Flag a mistake

4 **A chocolate cake is made from flour, sugar and eggs. Which ingredient provides protein?**

- A sugar
- B flour
- C eggs
- D water

Understand It with Pulse | Flag a mistake

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

- A 12
- B 14
- C 7
- D 2

Understand It with Pulse | Flag a mistake

6 **How can you tell that carbon dioxide is made in a reaction?**

A a squeaky pop is heard

B a yellow flame is seen

C limewater turns cloudy

D a glowing splint relights

Understand It with Pulse | Flag a mistake

7 **A sample containing potassium is put in a flame. What colour is the flame?**

A lilac

B crimson red

C orange-red flame

D bright yellow

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

9 **A castle is built of limestone. What is limestone made of?**

- A sodium chloride, common salt
- B calcium carbonate
- C calcium sulfate, found in plaster
- D magnesium oxide, a white powder

Understand It with Pulse | Flag a mistake

10

How do you test for sulfate ions?

A silver nitrate gives a yellow precipitate

B a glowing splint relights

C barium chloride gives a white precipitate

D limewater turns cloudy

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.