ENGLAND GCSE CHEMISTRY AQA FOUNDATION · UNIT 4 · 10 QUESTIONS

Chemical Changes — 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 made from flour, sugar and eggs. Which ingredient provides protein?**

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

Understand It with Pulse | Flag a mistake

2 **An ice cream cone melts in the Sun. What is happening to the particles in the ice cream?**

- A they stop moving
- B they lose energy and slow down a lot
- C they gain energy and move more
- D they get smaller

Understand It with Pulse | Flag a mistake

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

A the paint dissolves

B the paint burns in the water

C the paint freezes in the water

D the paint melts in the water

Understand It with Pulse | Flag a mistake

4 **A cup of coffee is hot. How is energy transferred to the air?**

A by evaporation only, from the top

B by conduction and convection

C by radiation only, from the surface

D by condensation on the cold cup

Understand It with Pulse | Flag a mistake

5 **When copper sulfate solution is electrolysed with carbon electrodes, what is made at the cathode?**

- A sulfur from the sulfate ions
- B copper
- C oxygen gas from the water
- D hydrogen gas from the water

Understand It with Pulse | Flag a mistake

6 **What is the difference between a strong acid and a weak acid?**

- A a strong acid is more concentrated
- B a strong acid is always dangerous
- C a strong acid is fully ionised
- D a strong acid has a higher pH

Understand It with Pulse | Flag a mistake

7 **What gas is made at the positive electrode in aluminium extraction?**

- A aluminium metal from the ore
- B carbon dioxide
- C hydrogen gas from the acid used
- D oxygen gas from the air around it

Understand It with Pulse | Flag a mistake

8 **Will magnesium displace iron from its salt solution?**

- A yes
- B only when heated
- C no
- D only with a catalyst

Understand It with Pulse | Flag a mistake

9 **How many moles are there in 80 g of a substance with a relative formula mass of 20 ?**

A 12

B 4

C 2

D 8

Understand It with Pulse | Flag a mistake

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

A 14

B 12

C 2

D 7

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.