ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · UNIT 9 · 10 QUESTIONS

Chemical Reactions — 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 is hot. How is energy transferred to the air?**

- A by radiation only, from the surface
- B by evaporation only, from the top
- C by condensation on the cold cup
- D by conduction and convection

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

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

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3 **Paintbrushes apply paint to a wall. What is the paint made of?**

- **A** a single compound, nothing else
- **B** a single element, nothing else
- **C** a mixture of substances
- **D** pure water with nothing in it

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4 **What is the relative formula mass of carbon dioxide, CO_2?**

- **A** 28
- **B** 44
- **C** 40
- **D** 32

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5 **What forms at the cathode during the electrolysis of molten lead bromide?**

A chlorine

B bromine

C hydrogen

D lead

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6 **How many moles are there in 40 g of a substance with a relative formula mass of 20 ?**

A 4

B 2

C 1

D 6

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

A sodium chloride, common salt

B calcium carbonate

C magnesium oxide, a white powder

D calcium sulfate, found in plaster

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8 **Which acid makes a sulfate salt?**

A nitric acid

B sulfuric acid

C ethanoic acid

D hydrochloric acid

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9 **How many moles are there in 20 g of a substance with a relative formula mass of 40?**

- A 0.25
- B 0.5
- C 1
- D 1.5

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10 **Will zinc displace copper from its salt solution?**

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

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ANSWER KEY

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

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