ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · UNIT 15 · 10 QUESTIONS

Chemical Analysis — 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 **Lemons taste sour. What does sour taste show?**

- A a metal is present
- B a salt is present
- C an acid is present
- D an alkali is present

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2 **Glass marbles are shaken in a tray. What does this model?**

- A particles disappearing completely
- B particles freezing into place
- C particles bonding together
- D particles gaining energy

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

A around minus 20 degrees Celsius

B around 0 degrees Celsius

C around 100 degrees Celsius

D around 37 degrees Celsius

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4 **A cup of coffee cools down. Energy is transferred to the surroundings. What type of change is this?**

A an energy transfer

B a chemical change

C a neutralisation

D a reversible reaction

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

A the solvent

B the paper

C the ruler

D the spots

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

A a compound

B a formulation

C an element

D a pure substance

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7 **In a chromatogram, a spot moves 5 cm and the solvent moves 8 cm. What is the Rf value?**

- A 0.72
- B 0.78
- C 0.62
- D 1.25

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8 **What colour flame does potassium give in a flame test?**

- A lilac
- B green
- C brick red
- D yellow

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

- A lilac
- B bright yellow
- C crimson red
- D orange-red flame

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10 **Silver coins conduct electricity well. Why?**

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

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ANSWER KEY

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

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