ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 9 · 10 QUESTIONS

Bonding, Structure, and the Properties of Matter — 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 **Silver coins are made of a metal. Which property do metals have?**

- **A** they conduct electricity
- **B** they dissolve in water
- **C** they are brittle
- **D** they do not conduct electricity at all

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2 **An ice cream cone is put in a freezer. What happens to the liquid?**

A it boils

B it evaporates

C it freezes

D it condenses

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3 **An atom has 8 protons. How many electrons does the neutral atom have?**

A 7

B 8

C 10

D 9

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4 **What is the formula of methane?**

A CH_3

B CH_2

C CH_4

D C_2H_4

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5 **A hot air balloon is filled with hot air. Why does it rise?**

A hot air has no mass

B hot air is less dense

C hot air is heavier than cold air

D hot air is colder

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6 **What type of bonding is in copper?**

A metallic

B covalent

C ionic

D intermolecular forces

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7 **Which change of state is endothermic?**

A condensing

B melting

C freezing

D solidifying

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8 **Glass marbles are used to model atoms. What is a limitation of the model?**

A marbles cannot be counted accurately at all

B marbles are too small to see properly

C marbles are the wrong colour for atoms

D marbles are much bigger than atoms

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9 **Why do simple covalent molecules have low melting points?**

A strong bonds between molecules

B molecules are small

C no forces at all

D weak forces between molecules

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10 **What type of bonding is in magnesium oxide?**

A metallic

B intermolecular forces

C ionic

D covalent

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ANSWER KEY

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

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