ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY HIGHER · UNIT 7 · 10 QUESTIONS

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

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

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2 **A hot air balloon cools down. What happens?**

- A it rises faster
- B it sinks
- C it bursts
- D it stays still

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3 **Which electronic structure is a noble gas?**

- A 2,8,8
- B 2,6
- C 2,8,1
- D 2,8,7

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4 **What did Newlands notice about the elements?**

- A the lightest elements were all gases
- B every element had a different mass
- C the elements fell into groups of three with matching properties
- D every eighth element had similar properties

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5 **An atom has 6 protons and 20 neutrons. What is its mass number?**

A 26

B 20

C 6

D 28

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6 **Which of these is a typical property of a metal?**

A it is brittle

B it is dull

C it does not conduct heat

D it conducts electricity

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7 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

- A 0
- B 32
- C 100
- D 10

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8 **A swimming pool holds water. Why does a person float in the pool?**

- A they are heavier than water and sink
- B their density is close to water
- C they are made of air
- D the water pushes them down

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9 **What was Thomson's plum pudding model?**

- **A** a tiny solid ball that cannot be divided at all
- **B** a ball of positive charge with electrons in it
- **C** a small nucleus with shells around it
- **D** a cloud of electrons with no centre

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10 **An atom of oxygen gains 2 electrons. What is the charge on the ion formed?**

- **A** +2
- **B** -2
- **C** -1
- **D** 0

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ANSWER KEY

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

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