ENGLAND GCSE CHEMISTRY OCR GATEWAY FOUNDATION · UNIT 1 · 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 **Hardcover books are stacked on a table. What force pulls them down?**

- A tension
- B friction
- C gravity
- D air resistance

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2 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- A it freezes
- B it contracts
- C it evaporates
- D it expands

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3 **An atom has atomic number 11 and mass number 23. How many neutrons does it have?**

A 11

B 23

C 34

D 12

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

A a cloud of electrons with no centre

B a small nucleus with shells around it

C a tiny solid ball that cannot be divided at all

D a ball of positive charge with electrons in it

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5 **A swimming pool is filled with water. What is the density of water?**

- A about 1000 kilograms per cubic metre
- B about 100 kilograms per cubic metre, roughly
- C about 1 kilogram per cubic metre
- D about 10 kilograms per cubic metre

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

- A marbles are too small to see properly
- B marbles are much bigger than atoms
- C marbles cannot be counted accurately at all
- D marbles are the wrong colour for atoms

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7 **Which transition metal is used in construction?**

A calcium

B sodium

C lithium

D iron

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8 **Which element has the electronic structure 2,8,1?**

A chlorine, which has seven outer electrons

B magnesium, which has two outer electrons

C argon, which has a full outer shell

D sodium

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9 **Which group contains the alkali metals?**

A Group 0

B Group 2

C Group 7

D Group 1

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10 **An element is in period 3 of the periodic table. How many electron shells do its atoms have?**

A 3

B 2

C 4

D 5

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ANSWER KEY

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

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