ENGLAND GCSE CHEMISTRY OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 2 · 10 QUESTIONS

# Chemical Patterns — 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 contain citric acid. What do acids make with metals?**

- A a salt and oxygen gas
- B a salt and water, never hydrogen
- C a salt and hydrogen
- D water only, nothing else

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

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

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3 **What is a group in the periodic table?**

A a period

B a block

C a row

D a column

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4 **What did Bohr suggest about electrons?**

A they sit inside the nucleus

B they are stuck in a ball of charge

C they sit in shells at fixed distances

D they move about at random anywhere in the atom

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5 **What is a covalent bond?**

A an attraction between ions

B a sea of electrons

C a shared pair of electrons

D an attraction between molecules

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6 **An element, boron, has isotopes. 20 percent have a mass of 10 and 80 percent have a mass of 11. What is the relative atomic mass of boron?**

A 10.8

B 9.8

C 11.8

D 11.3

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7 **Why do giant covalent structures have high melting points?**

- A their molecules are very small
- B many strong bonds must break
- C their layers slide apart easily
- D weak forces between molecules break

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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 the wrong colour for atoms
- C marbles are much bigger than atoms
- D marbles are too small to see properly

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**9** **Silver coins are made of the element silver. What is the chemical symbol for silver?**

- **A** Ag
- **B** Si
- **C** S
- **D** Sv

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**10** **An atom of calcium loses 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. C
2. B
3. D
4. C
5. C
6. A
7. B
8. C
9. A
10. B

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