ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 8 · 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 **A thermometer shows a patient's temperature is 39 degrees Celsius. Is this above or below normal body temperature?**

- A below normal
- B impossible to tell
- C above normal
- D exactly normal

Understand It with Pulse | Flag a mistake

2 **A swimming pool is heated. What happens to the water particles?**

- A they stop moving
- B they get smaller
- C they disappear
- D they move faster

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3 **Which particle has a positive charge?**

A the nucleus

B the proton

C the electron

D the neutron

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4 **What is a covalent bond?**

A an attraction between molecules

B a sea of electrons

C an attraction between ions

D a shared pair of electrons

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5 **What is the charge on a sodium ion?**

- A Na^{+}
- B Na^{2+}
- C Na^{-}
- D Na

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

- A 0
- B 6
- C 18
- D 12

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7 **What is the mass number of an isotope with 6 protons and 8 neutrons?**

A 14

B 6

C 8

D 20

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

A marbles are much bigger than atoms

B marbles cannot be counted accurately at all

C marbles are too small to see properly

D marbles are the wrong colour for atoms

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9 **An element, copper, has isotopes. 69 percent have a mass of 63 and 31 percent have a mass of 65. What is the relative atomic mass of copper?**

- A 64.6
- B 63.6
- C 64.1
- D 62.6

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10 **An atom of aluminium loses 3 electrons. What is the charge on the ion formed?**

- A +3
- B 0
- C +2
- D -3

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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