ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY HIGHER · UNIT 18 · 5 QUESTIONS

Matter - Models and Explanations — 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 measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

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

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2 **In which state can particles flow but stay close together?**

A gas

B solid

C plasma

D liquid

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3 **Why does a change of state need energy even though the temperature stays the same?**

A the particles need to slow down

B energy is needed to break bonds

C energy is destroyed in the change

D the temperature is wrong

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4 **A 4 kg block has a specific heat capacity of 400 J/kg degrees Celsius. Its temperature rises by 20 degrees Celsius. How much energy is needed?**

- A 32500 J
- B 64000 J
- C 16000 J
- D 32000 J

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5 **A spring has a spring constant of 20 N/m. It is stretched by 4 cm. What is the force?**

- A 0.4 N
- B 1.3 N
- C 0.8 N
- D 1.6 N

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ANSWER KEY

1. B
2. D
3. B
4. D
5. C

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