ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY FOUNDATION · 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 swimming pool is heated. What happens to the water particles?**

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

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2 **An object has a mass of 50 g and a volume of 20 cubic centimetres. What is its density?**

- A 1.25 g/cm³
- B 70 g/cm³
- C 2.5 g/cm³
- D 5 g/cm³

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3 **A ladder is climbed. Which energy store increases?**

- A kinetic energy of motion
- B gravitational potential
- C thermal energy from friction
- D elastic potential energy

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4 **A spring has a spring constant of 50 N/m. It is stretched by 2 cm. What is the force?**

- A 2 N
- B 1.5 N
- C 0.5 N
- D 1 N

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5 **A 10 kg block has a specific heat capacity of 400 J/kg degrees Celsius. Its temperature rises by 5 degrees Celsius. How much energy is needed?**

- A 20000 J
- B 20500 J
- C 10000 J
- D 40000 J

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ANSWER KEY

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

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