ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · UNIT 14 · 10 QUESTIONS

Particle Model — 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 to let Brett know so he can fix it.

1 **An ice cream cone is put in a freezer. What happens to the liquid?**

- A it evaporates
- B it boils
- C it condenses
- D it freezes

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2 **A thermometer shows a patient's temperature is 39 degrees Celsius. Is this above or below normal body temperature?**

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

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3 **How much energy is needed to heat 4 kg of a substance with a specific heat capacity of 900 J per kg per degree Celsius by 10 degrees Celsius?**

- A 72000 J
- B 18000 J
- C 36000 J
- D 3600 J

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4 **A cup of coffee is left for an hour. What happens to its temperature?**

- A it rises above room temperature
- B it falls to room temperature
- C it stays the same all day
- D it falls to zero degrees

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5 **A material has a density of 8 g per cubic centimetre. What is the mass of 10 cubic centimetres of it?**

- A 80 g
- B 160 g
- C 40 g
- D 18 g

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6 **How much energy is needed to change 2 kg of a substance from liquid to gas, if the specific latent heat is 2260000 J per kg?**

- A 2260002 J
- B 9040000 J
- C 4520000 J
- D 2260000 J

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7 **In the density practical, how is the volume of an irregular object found?**

- A by the rise in water level
- B by weighing it twice
- C by measuring its length only
- D by heating it and timing it

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8 **Why does heating a gas in a sealed container raise the pressure?**

- A the particles stop moving
- B they hit the walls harder
- C the particles get bigger
- D the container gets smaller

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9 **A 2 kg mass of ice melts. The specific latent heat of fusion of ice is 400 J/kg. How much energy is needed?**

- A 1600 J
- B 900 J
- C 800 J
- D 400 J

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10 **Glass marbles in a tray are used as a model for particles in a solid. What do the marbles show?**

- A particles are far apart from each other
- B particles flow past each other easily
- C particles move freely through space
- D particles vibrate in fixed positions

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ANSWER KEY

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

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