ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 20 · 10 QUESTIONS

Particle Model of Matter — 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 **An ice cream cone is put in a freezer. What happens to the liquid?**

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

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2 **A swimming pool is filled with water. What is the density of water?**

- A about 1 kilogram per cubic metre
- B about 10 kilograms per cubic metre
- C about 100 kilograms per cubic metre, roughly
- D about 1000 kilograms per cubic metre

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3 **A material has a density of 2 g per cubic centimetre. What is the mass of 20 cubic centimetres of it?**

- A 22 g
- B 40 g
- C 80 g
- D 20 g

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4 **How much energy is needed to change 3 kg of a substance from liquid to gas, if the specific latent heat is 2260000 J per kg?**

- A 13560000 J
- B 3390000 J
- C 6780000 J
- D 2260003 J

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

- A 0.5 g/cm³
- B 2 g/cm³
- C 1 g/cm³
- D 100 g/cm³

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

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

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7 **How much energy is needed to heat 1 kg of a substance with a specific heat capacity of 2100 J per kg per degree Celsius by 20 degrees Celsius?**

- A 84000 J
- B 42000 J
- C 21000 J
- D 2100 J

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8 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

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

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

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

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10 **How much energy is needed to change 5 kg of a substance from liquid to gas, if the specific latent heat is 2260000 J per kg?**

- A 22600000 J
- B 2260005 J
- C 5650000 J
- D 11300000 J

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ANSWER KEY

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

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