ENGLAND GCSE PHYSICS OCR GATEWAY FOUNDATION · UNIT 1 · 10 QUESTIONS

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 to let Brett know so he can fix it.

1 **A cup of coffee is hot. How is energy transferred to the air?**

- A by evaporation only, from the top
- B by condensation on the cold cup
- C by conduction and convection
- D by radiation only, from the surface

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

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

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3 **A hot air balloon cools down. What happens?**

- A it rises faster
- B it sinks
- C it bursts
- D it stays still

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4 **A material has a density of 8 g per cubic centimetre. What is the mass of 25 cubic centimetres of it?**

- A 400 g
- B 100 g
- C 33 g
- D 200 g

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

A about 1 kilogram per cubic metre

B about 1000 kilograms per cubic metre

C about 100 kilograms per cubic metre, roughly

D about 10 kilograms per cubic metre

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6 **What happens to internal energy when a substance is heated?**

A it decreases

B it becomes zero

C it stays the same

D it increases

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

- A the particles need to slow down
- B the temperature is wrong
- C energy is destroyed in the change
- D energy is needed to break bonds

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8 **Why does a gas exert pressure on the walls of its container?**

- A gravity pulls the gas down
- B particles stick to the walls
- C the walls push the gas
- D particles hit the walls

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9 **What happens to gas pressure when the volume falls at fixed temperature?**

A it increases

B it stays the same

C it decreases

D it becomes zero

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10 **How much energy is needed to heat 4 kg of a substance with a specific heat capacity of 2100 J per kg per degree Celsius by 5 degrees Celsius?**

A 84000 J

B 21000 J

C 42000 J

D 8400 J

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ANSWER KEY

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

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