ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · UNIT 13 · 5 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 so it can be fixed.

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

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

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2 **A 10 kg mass of ice melts. The specific latent heat of fusion of ice is 400 J/kg. How much energy is needed?**

- A 4000 J
- B 2000 J
- C 8000 J
- D 4100 J

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

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

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4 **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 20 degrees Celsius?**

- A 336000 J
- B 168000 J
- C 8400 J
- D 84000 J

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5 **A 2 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 8000 J

B 4500 J

C 2000 J

D 4000 J

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ANSWER KEY

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

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