ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · UNIT 13 · 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 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 boils
- C it freezes
- D it evaporates

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2 **A hot air balloon is filled with hot air. Why does it rise?**

- A hot air is heavier than cold air
- B hot air is less dense
- C hot air has no mass
- D hot air is colder

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3 **A 5 kg mass of ice melts. The specific latent heat of fusion of ice is 100 J/kg. How much energy is needed?**

- A 500 J
- B 250 J
- C 600 J
- D 1000 J

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4 **A block has a mass of 1000 g and a volume of 200 cubic centimetres. What is its density?**

- A 2.5 g/cm³
- B 10 g/cm³
- C 8 g/cm³
- D 5 g/cm³

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5 **A swimming pool holds water. Why does a person float in the pool?**

A they are made of air

B the water pushes them down

C they are heavier than water and sink

D their density is close to water

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6 **Glass marbles are shaken in a tray. What does this model?**

A particles freezing into place

B particles disappearing completely

C particles gaining energy

D particles bonding together

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7 **A cup of coffee cools down. Energy is transferred to the surroundings. What type of change is this?**

- A a chemical change
- B an energy transfer
- C a reversible reaction
- D a neutralisation

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8 **What happens to the particles when a solid melts?**

- A they stop moving altogether
- B they disappear
- C they get smaller
- D they move more freely

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9 **How much energy is needed to heat 5 kg of a substance with a specific heat capacity of 2100 J per kg per degree Celsius by 20 degrees Celsius?**

A 210000 J

B 420000 J

C 10500 J

D 105000 J

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

A exactly normal

B above normal

C below normal

D impossible to tell

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ANSWER KEY

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

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