ENGLAND GCSE PHYSICS OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 6 · 10 QUESTIONS

Matter - Models and Explanations — 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 condenses
- **C** it boils
- **D** it freezes

Understand It with Pulse | Flag a mistake

2 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- A it evaporates
- B it freezes
- C it expands
- D it contracts

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3 **How much energy is needed to heat 5 kg of a substance with a specific heat capacity of 4200 J per kg per degree Celsius by 10 degrees Celsius?**

- A 210000 J
- B 105000 J
- C 21000 J
- D 420000 J

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

A hot air is less dense

B hot air is colder

C hot air is heavier than cold air

D hot air has no mass

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5 **A spring has a spring constant of 10 N/m. It is stretched by 10 cm. What is the force?**

A 1.5 N

B 1 N

C 2 N

D 0.5 N

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6 **What is a light-year?**

A the distance to the Moon

B the age of the Sun

C the time light takes to cross the Sun

D the distance light travels in one year

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7 **A block has a mass of 1000 g and a volume of 500 cubic centimetres. What is its density?**

A 5 g/cm³

B 2 g/cm³

C 4 g/cm³

D 1 g/cm³

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8 **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 800 J
- B 1600 J
- C 400 J
- D 900 J

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9 **Why do television satellites use geostationary orbits?**

- A so they avoid the Moon
- B so they stay cool
- C dishes can stay pointed at it
- D so they can move quickly around the Earth

Understand It with Pulse | Flag a mistake

10 **What does red-shift from distant galaxies tell us about the Universe?**

A it is expanding

B it is not changing

C it is getting smaller

D it is shrinking

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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