ENGLAND GCSE PHYSICS OCR TWENTY FIRST CENTURY HIGHER · 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 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

A 32

B 100

C 10

D 0

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

3 **How much energy is needed to change 1 kg of a substance from solid to liquid, if the specific latent heat is 334000 J per kg?**

- A 334001 J
- B 334000 J
- C 668000 J
- D 167000 J

Understand It with Pulse | Flag a mistake

4 **What are comets made of?**

A ice and rock

B liquid metal

C pure iron

D hot gas only

Understand It with Pulse | Flag a mistake

5 **A material has a density of 2 g per cubic centimetre. What is the mass of 10 cubic centimetres of it?**

A 12 g

B 40 g

C 20 g

D 10 g

Understand It with Pulse | Flag a mistake

6 **A block has a mass of 400 g and a volume of 500 cubic centimetres. What is its density?**

- A 1.6 g/cm³
- B 0.8 g/cm³
- C 3.8 g/cm³
- D 0.4 g/cm³

Understand It with Pulse | Flag a mistake

7 **Why does light from a receding galaxy arrive red-shifted?**

- A the waves squash
- B the waves stretch
- C the light speeds up
- D the light slows down

Understand It with Pulse | Flag a mistake

8 **In the density practical, how is the volume of an irregular object found?**

A by weighing it twice

B by measuring its length only

C by the rise in water level

D by heating it and timing it

Understand It with Pulse | Flag a mistake

9 **An ice cream cone melts. What is the melting point of the ice cream?**

A around 0 degrees Celsius

B around minus 20 degrees Celsius

C around 37 degrees Celsius

D around 100 degrees Celsius

Understand It with Pulse | Flag a mistake

10 **Why do astronomers use light-years?**

- A stars are very small
- B space distances are huge
- C kilometres do not work in space
- D light travels slowly

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.