ENGLAND GCSE PHYSICS AQA HIGHER · UNIT 3 · 5 QUESTIONS

Particle Model of 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 **An ice cream cone melts in the Sun. What is happening to the particles in the ice cream?**

- A they stop moving
- B they lose energy and slow down a lot
- C they get smaller
- D they gain energy and move more

Understand It with Pulse | Flag a mistake

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

- A their density is close to water
- B they are made of air
- C they are heavier than water and sink
- D the water pushes them down

Understand It with Pulse | Flag a mistake

3 **A block has a mass of 500 g and a volume of 100 cubic centimetres. What is its density?**

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

Understand It with Pulse | Flag a mistake

4 **Glass marbles are used to model atoms. What is a limitation of the model?**

- A marbles cannot be counted accurately at all
- B marbles are too small to see properly
- C marbles are the wrong colour for atoms
- D marbles are much bigger than atoms

Understand It with Pulse | Flag a mistake

5

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

A it rises above room temperature

B it stays the same all day

C it falls to zero degrees

D it falls to room temperature

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.