ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 17 · 5 QUESTIONS

Radioactive Materials — 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 hot air balloon cools down. What happens?**

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

Understand It with Pulse | Flag a mistake

2 **A sample has an activity of 1600 counts per minute. After 3 half-lives, what is its activity?**

- A 800
- B 400
- C 200
- D 100

Understand It with Pulse | Flag a mistake

3 **A swimming pool is heated. What happens to the water particles?**

- A they get smaller
- B they disappear
- C they move faster
- D they stop moving

Understand It with Pulse | Flag a mistake

4 **Glass marbles in a tray are used as a model for particles in a solid. What do the marbles show?**

- A particles vibrate in fixed positions
- B particles flow past each other easily
- C particles move freely through space
- D particles are far apart from each other

Understand It with Pulse | Flag a mistake

5

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

A by evaporation only, from the top

B by conduction and convection

C by radiation only, from the surface

D by condensation on the cold cup

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.