ENGLAND GCSE PHYSICS OCR GATEWAY HIGHER · UNIT 6 · 10 QUESTIONS

Radioactivity — 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 guitar is plugged into an amplifier. What flows through the cable?**

- A light
- B sound waves travelling along it
- C electric current
- D water

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2 **Hardcover books are dropped. What happens to their speed as they fall?**

- A it increases
- B it becomes zero
- C it decreases
- D it stays the same

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3 **How can radiation be stopped?**

A by heating the source

B by washing the source

C by cooling the source

D by shielding

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

A particles freezing into place

B particles bonding together

C particles disappearing completely

D particles gaining energy

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5 **In beta decay, what happens to the mass number of the nucleus?**

A it falls by 4, like in alpha decay

B it rises by 1, like the atomic number

C it stays the same

D it falls by 1, like a proton

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6 **A kite flies in the wind. Which force holds the kite up?**

A thrust

B drag

C weight

D lift

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7 **Silver coins are made of the element silver. What is the chemical symbol for silver?**

A S

B Si

C Ag

D Sv

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8 **A wristwatch measures time. What is the unit of time?**

A the minute

B the hour

C the day

D the second

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9 **What do control rods do in a nuclear reactor?**

A they add more fuel

B they speed up the neutrons

C they absorb neutrons

D they cool the water

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10 **A sample's activity halves every 5 years. After 10 years, what fraction of the original activity remains?**

A 1/2

B 1/4

C 1

D 1/8

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ANSWER KEY

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

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