ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 21 · 10 QUESTIONS

Atomic Structure — 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 **Hardcover books have mass. What is mass measured in?**

- A newtons, the unit of force
- B watts
- C joules
- D kilograms

Understand It with Pulse | Flag a mistake

2 **A wristwatch ticks every second. How many ticks in a minute?**

- A 60
- B 12
- C 100
- D 30

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3 **A thermometer shows a patient's temperature is 39 degrees Celsius. Is this above or below normal body temperature?**

- A above normal
- B exactly normal
- C impossible to tell
- D below normal

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4 **Silver coins are made of a metal. Which property do metals have?**

- A they do not conduct electricity at all
- B they conduct electricity
- C they are brittle
- D they dissolve in water

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5 **A calculator is switched on. What does the battery transfer energy to?**

- A the screen only
- B the circuits
- C the case
- D the buttons only

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6 **A sample has an activity of 3200 counts per minute. After 3 half-lives, what is its activity?**

- A 800
- B 400
- C 1600
- D 200

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7 **Which type of radiation needs thick lead to stop it?**

A gamma

B neutron

C beta

D alpha

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

A marbles are much bigger than atoms

B marbles cannot be counted accurately at all

C marbles are too small to see properly

D marbles are the wrong colour for atoms

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9

What is irradiation?

A a type of decay

B a type of fission

C exposure to radiation

D contamination with a source

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10

What happens to the activity of a sample over time?

A it falls

B it rises

C it stays the same

D it falls then rises

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ANSWER KEY

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

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