ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY FOUNDATION · UNIT 13 · 10 QUESTIONS

Radiation and Waves — 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 thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- A it expands
- B it freezes
- C it contracts
- D it evaporates

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

- A particles disappearing completely
- B particles freezing into place
- C particles bonding together
- D particles gaining energy

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3 **Which type of radiation is most ionising?**

A alpha

B beta

C neutron

D gamma

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4 **What is the unit of frequency?**

A the second

B the hertz

C the metre

D the joule

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

- A by radiation only, from the surface
- B by condensation on the cold cup
- C by evaporation only, from the top
- D by conduction and convection

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6 **A sunflower grows taller over the summer. Where does most of the extra mass come from?**

- A sunlight captured by the leaves
- B carbon dioxide from the air
- C minerals absorbed from the soil
- D water absorbed from the soil

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7 **A guitar string is tightened. What happens to the pitch?**

- A it falls
- B it stays the same
- C it rises
- D it disappears

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8 **Which type of radiation is used in a TV remote control?**

- A gamma rays
- B infrared
- C ultraviolet
- D X-rays

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9 **A wave travels at 10 m/s with a wavelength of 5 m. What is its frequency?**

- A 4 Hz
- B 1 Hz
- C 2 Hz
- D 50 Hz

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10 **Which electromagnetic waves are used for cooking food?**

- A X-rays
- B gamma rays
- C ultraviolet
- D microwaves

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ANSWER KEY

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

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