ENGLAND GCSE PHYSICS OCR TWENTY FIRST CENTURY HIGHER · UNIT 1 · 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 to let Brett know so he can fix it.

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

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

Understand It with Pulse | Flag a mistake

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

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

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

A gamma rays

B microwaves

C ultraviolet

D X-rays

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4 **What is the speed of sound in air?**

A 1000 m/s

B 340 m/s

C 150 m/s

D 300000000 m/s

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5 **Carbon dioxide levels rose from 280 ppm to 400 ppm. What is the increase?**

A 140 ppm

B 100 ppm

C 160 ppm

D 120 ppm

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6 **What is the period of a wave?**

A the height of the wave

B the time for one wave to pass

C the distance between peaks

D the number of waves per second

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7 **What does a concave lens do to parallel rays of light?**

A it spreads them apart

B it reflects them back

C it brings them together

D it stops them

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8 **What does the frequency of a sound wave decide?**

A its speed in air

B its loudness

C its pitch

D its colour

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

A it falls to zero degrees

B it falls to room temperature

C it rises above room temperature

D it stays the same all day

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10 **A wave travels at 30 m/s with a wavelength of 10 m. What is its frequency?**

A 300 Hz

B 6 Hz

C 3 Hz

D 1.5 Hz

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## ANSWER KEY

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

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