ENGLAND GCSE PHYSICS OCR TWENTY FIRST CENTURY FOUNDATION · 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 **A guitar string vibrates to make a sound. What type of wave is the sound wave?**

- A electromagnetic
- B transverse
- C longitudinal
- D standing

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

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

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3 **What do all electromagnetic waves travel at?**

A the speed of light

B different speeds

C the speed of the wave

D the speed of sound

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4 **A wave travels at 20 m/s with a wavelength of 10 m. What is its frequency?**

A 1 Hz

B 200 Hz

C 2 Hz

D 4 Hz

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

- A it rises above room temperature
- B it falls to room temperature
- C it stays the same all day
- D it falls to zero degrees

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6 **Hardcover books are stacked on a table. What force pulls them down?**

- A friction
- B air resistance
- C gravity
- D tension

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7 **A wave has a frequency of 4 Hz and a wavelength of 5 m. What is the wave speed?**

- A 25 m/s
- B 10 m/s
- C 40 m/s
- D 20 m/s

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8 **Which type of wave is a sound wave?**

- A transverse
- B electromagnetic
- C standing
- D longitudinal

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9 **Carbon dioxide levels rose from 280 ppm to 420 ppm. What is the increase?**

A 180 ppm

B 160 ppm

C 140 ppm

D 120 ppm

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10 **Why does light bend when it enters a different material?**

A its colour changes

B its speed changes

C it becomes sound

D it loses energy

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ANSWER KEY

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

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