

Waves

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Timer: 15 minutes. No calculator unless a question needs one. Answers are on the next page.

Q1. In a transverse wave, oscillations are _____ to the direction of energy transfer.

Q2. Write the wave speed equation.

Q3. A wave has frequency 2 Hz and wavelength 3 m. Calculate speed.

Q4. All electromagnetic waves travel at the same speed in a _____.

Q5. Which part of the EM spectrum is used in thermal imaging?

Q6. Why can sound not travel through a vacuum?

Q7. What is the unit of frequency?

Q8. Give one use and one hazard of gamma rays.

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- Q1.** perpendicular / at right angles
- Q2.** $v = f \times \lambda$ (wave speed = frequency x wavelength)
- Q3.** 6 m/s
- Q4.** vacuum
- Q5.** Infrared
- Q6.** It needs a medium / particles to oscillate
- Q7.** Hertz (Hz)
- Q8.** Use: sterilising / cancer treatment. Hazard: ionising / can cause cancer / mutate DNA

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