## **Wave Properties Questions for GCSE Physics**



1. [	Define the term "amplitude."
2. /	A wave has a frequency of 10 Hz. What is its period?
3. \	What is meant by the frequency of a wave?
4. \	What is a transverse wave? Give one example.
5. \	What is a longitudinal wave? Give one example.

6. If the period of a wave is 0.2 seconds, calculate its frequency.
7. A wave has a wavelength of 5 meters and a frequency of 2 Hz. What is its speed?
8. Explain the difference between frequency and period.
9. If the amplitude of a wave increases, what happens to the energy of the wave?
<b>10.</b> If a wave travels at 340 m/s and has a frequency of 170 Hz, what is its wavelength?

11.	A wave travels with a speed of 300 m/s and a wavelength of 0.5 meters. Calculate its frequency.
12.	A sound wave has a frequency of 500 Hz and a wavelength of 0.68 meters. Calculate its speed.
13.	A water wave has a wavelength of 3 meters and a speed of 1.5 m/s. Calculate its frequency.
14.	The period of a wave is 0.05 seconds. What is the frequency?
15.	A wave has a frequency of 5 Hz and travels at 15 m/s. Calculate the wavelength.

16. A its spe	A wave traveling in water has a wavelength of 4 meters and a period of 0.2 seconds. Calculate ed.
<b>17.</b> <i>A</i> wavele	A light wave in a vacuum has a speed of 3×10 <sup>8</sup> m/s and a frequency of 6×10 <sup>14</sup> Hz. Calculate its ength.
<b>18.</b> A	A sound wave travels at 330 m/s in air. If the wavelength is 0.75 m, what is the frequency?
<b>19.</b> A wave.	A radio wave travels at 3×10 <sup>8</sup> m/s with a wavelength of 100 meters. Determine the period of this
	An ultrasound wave in soft tissue travels at 1540 m/s. If its wavelength is 3.0 millimeters, ate the period of the wave.