

## Chapter 12 Sound Waves Answer Key

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Answer : The vibration of the medium that travels along or parallel to the direction of the wave is called a longitudinal wave. In a sound wave, the particles of the medium vibrate in the direction parallel to the direction of the propagation of disturbance. Hence, a sound wave is called a longitudinal wave.

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Answer: (a) Infra sound : Sound waves between the Frequencies 1 and 20 Hz. (b) Ultrasound : Sound waves of the frequencies above 20,000 Hz. Extra Questions for CBSE Class 9 Science Chapter 12 Sound. Question 1. What is sound and how is it produced ? Answer: Sound is mechanical energy which produces a sensation of hearing. When an Object is set into vibrations, sound is produced.

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Give two practical applications of reflection of sound waves. A stone is dropped from the top of a tower 500 m high into a pond of water at the base of the tower. When is the splash heard at the top? Given,  $g = 10 \text{ m s}^{-2}$  and speed of sound =  $340 \text{ m s}^{-1}$ .

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[12] 750 Hz [13] 0.33 m [14] 0.47 W/m<sup>2</sup> [15]  $5.0 \times 10^{-5} \text{ W}$ . Top. Ch 12 Test Practice: Sound Waves. 12.1 Sound Waves. 1 mi = 1609 m Speed of Light =  $3.0 \times 10^8 \text{ m/s}$   $10 = 1 \times 10^{-12} \text{ W/m}^2$ . 1 Define: [a] Wavelength [f] Hertz [b] Frequency [g] Doppler Effect [c] Period [h] Transverse Wave

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Write down three differences between a sound wave and lightwave. Answer: Sound wave: It travels in the form of longitudinal waves. It requires a medium for its propagation. It travels through air with a speed of 332 propagation. m/s at 0 ° C. Lightwave: It travels in the form of a transverse wave. It does not require a medium for its propagation.

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Answer: Sound follows the same laws of reflection as light does. The incident sound wave and the reflected sound wave make the same angle with the normal to the surface at the point of incidence. Also, the incident sound wave, the reflected sound wave, and the normal to the point of incidence all lie in the same plane.

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MCQs from CBSE Class 9 Science Chapter 12: Sound. Q1. The sound can travel in air when: (a) Particles of medium travel from one place to another (b) There is no moisture in the atmosphere (c) Disturbance travel from one place to another (d) Both particles as well as disturbance travel from one place to another

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The reflected sound waves enter the second tube and are heard by the placed in front of the sound tube. Class 9 Science Chapter 12 Important Extra Questions Set – 6 A sound wave of wavelength 0.332 m has a time period of  $10^{-3} \text{ s}$ . If the time period is decreased to  $10^{-4} \text{ s}$ , calculate the wavelength and frequency of new wave.

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Answer Two practical applications of reflection of sound waves are: Reflection of sound is used to measure the distance and speed of underwater objects. This method is known as SONAR. Working of a stethoscope is also based on reflection of sound.

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If the runner farthest from the starter pistol is 10 meters farther away from the closest runner, sound takes an extra  $(10 \text{ m}) / (343 \text{ m/s}) = 0.03$  seconds, more than enough to give the closer runner an unfair head start. Electrical signals go a lot faster than sound, so all runners will hear the speaker-delivered sound at the same time.

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~~Sound Class 9 Science Chapter Notes, Explanation, Question ...~~

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