

## Sound



Name Class A tuning fork vibrating in air produces sound A student in a band notices that a drum waves. These waves are best classified as vibrates when another instrument emits A transverse, because the air molecules are a certain frequency note. This vibrating parallel to the direction of wave motion phenomenon illustrates transverse, because the air molecules are vibrating perpendicular to the direction of wa reflection longitudinal, because the air molecules are **B** resonance vibrating parallel to the direction of wave motion longitudinal, because the air molecules are refraction vibrating perpendicular to the direction of wave diffraction In the diagram below, the distance between 3 The spreading of a wave into the region points A and B on a wave is 5.0 meters. behind an obstruction is called The wavelength of this wave is 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 constant trequency. Compared to the sound produced by the whistle, the sound A lower speed observed by the student is B higher pitch greater in amplitude C shorter wavelength B a transverse wave rather D greater loudnes than a longitudinal higher in pitch lower in pitch 9 periodic wave having a frequency of the product of a wave's frequenc and its period is 5.0 hertz and a speed of 10 meters per second has a wavelength of A one A 0.50 m B its velocity **B** 2.0 m C its wavelength C 5.0 m Planck's constant **D** 50 m



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