

Sound



Name Class Date In a demonstration, a vibrating tuning fork The diagram below shows wave fronts causes a nearby second tuning fork to spreading into the region behind a barrier. begin to vibrate with the same frequency. Which wave phenomenon is represented Which wave phenomenon is illustra this demon **A** reflection the Doppler effect **B** refraction barri C diffraction resonance standing wave: interference The diagram below represents the wave A radar gun can determine the speed of a 3 pattern produced by two sources located at moving automobile by measuring the points A and B. difference in frequency between emitted and reflected radar waves. This process 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 pattern ii the two waves have from a referee's whistle in an open field even when standing behind the referee? A the same frequency, the same amplitude, and travel in the same direction the same frequency, the same amplitude, A diffraction and travel in opposite directions B Doppler effec the same frequency, different amp reflection and travel in the same direction **D** the same frequency, different amplitudes, refraction and travel in opposite directions As a sound wave passes from water, where 9 Which phenomenon occurs when an obje the speed is 1.49 × 100 meters per second, absorbs wave energy that matches the into air, the wave's speed object's natural frequency? A decreases and its frequency remains the A reflection increases and its frequency remains the **B** diffraction same C resonance remains the same and its frequency **D** interference decreases remains the same and its frequency increases



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