

HW: ch 26 EOC: 2, 11, 16, 21, 33, 39

2. How does pitch relate to frequency? (26.1)

11. Why do different objects make different sounds when dropped on a floor? (26.7)

16. What does tuning in a radio station have to do with resonance? (26.8)

21. When watching a baseball game, we often hear the bat hitting the ball after we actually see the hit. Why?

Develop

33. Sound waves travel at approximately 340 m/s. What is the wavelength of a sound with a frequency of 20 Hz (the lowest note we can hear as a sound)? What is the wavelength of a sound with a frequency of 20 kHz (the highest note we can hear)?

39. A rule for estimating the distance in kilometers between an observer and a lightning stroke is to divide the number of seconds in the interval between the flash and the thunder by 3. Is this rule correct?