Waves

1. Sound

CONCEPT 1

TEST YOURSELF

WHAT IS SOUND?



- Q1 What causes the sound when a bell is rung?
- Q2 How does the sound from a trumpet in an orchestra reach a person in the audience?



- Q3 Describe the movement of air particles in a longitudinal sound wave.
- Q4 How can a longitudinal sound wave transfer energy from the source of sound to a receiver?
- Q5 Match the sounds to the correct loudness in dB

Sound	Loudness (dB)
someone whispering	80
washing machine spin	140
jet engine	60
motorbike	140
someone talking	30



Q6 The diagram shows a sponge ball and a steel ball above a wooden desk. They are dropped one at time and they both make a sound.

Explain why the steel ball make a louder sound than the sponge ball.





Q7 Explain why a sound will not be as loud as it travels further from the source.