

Sound

Study Guide & Review Worksheets

Sound

Terms to Know

- **Mechanical Energy:** Energy an object has due to its position and motion. Also known as the energy of motion.
- **Compression Wave:** Sound travels in this type of wave.
- **Pitch:** How high or low a sound is.

Sound & Matter

Sound must have a medium to travel through. Sound travels fastest through solids because the particles are packed together. Sound travels slowest through gas because the particles are farther apart.



Solid



Gas

Example: Sound will travel faster through a wooden door than a balloon filled with air.

Sound & Pitch

Sound is a form of mechanical energy that is produced by **vibrations**. Objects that vibrate more quickly have a higher pitch than those that vibrate more slowly. For example, if you tighten the strings on a guitar, they will produce a higher pitch because the strings will vibrate faster.

Examples:



A small bell produces a high pitch. Therefore, the bell vibrates quickly.



A large drum produces a low pitch. Therefore, the drum vibrates slowly.

Striking

- guitar
- xylophone
- bongos



Tapping

- drums
- maracas
- xylophone



Blowing

- flute
- trumpet
- harmonica



Musical Instruments

Match each instrument to produce sound. Instrument produces sounds in different ways.

Which object that sound would travel the slowest through?

_____ a tabletop

_____ turns the guitar. Then, she tightens the strings of the guitar after tightening the

_____ to improve learning in your classroom?

_____ produce sound by strumming, two that produce sound by blowing.

Striking	Blowing

_____ Quan. Quan is having trouble hearing his dad and can hear Louis better. Why does he hear better?

Sound Study Guide

Mansoor Khan MBBS, RDMS, RDCS

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Sound Study Guide:

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