Matching of Vocab:

\_\_\_\_\_\_ absorption A. The back-and-forth motion of an object that causes sound

\_\_\_\_\_\_\_\_ decibel B. The bouncing of a sound wave off a surface

\_\_\_\_\_\_\_\_ echo C. A *unit* that measure the loudness or softness of a sound

\_\_\_\_\_\_\_\_ medium D. The "disappearance" of a sound wave into a surface

\_\_\_\_\_\_\_\_ pitch E. A vibration that spreads away from a vibrating object

\_\_\_\_\_\_\_\_ reflection F. An empty space that contains no air or other matter

\_\_\_\_\_\_\_\_ sound wave G. A material

\_\_\_\_\_\_\_\_\_ vacuum H. How loud or soft a sound is

\_\_\_\_\_\_\_\_\_ vibration I. How high or low a sound in is; Objects that vibrate slowly produce low pitches; Objects that vibrate quickly produce high pitches

\_\_\_\_\_\_\_\_\_ volume J. A reflected sound wave

**Sample Questions:**

1. Which action demonstrates *reflected s*ound?

A. an echo off a cliff B. sound traveling through
 air

C. sound absorbed by a towel D. sound bending around a
 building

2. Joseph hears his dad playing his piano. Select the **two statements** that must be true in order for Joseph to hear the piano.

 \_\_\_\_\_ The piano strings must be vibrating.

 \_\_\_\_\_ The piano must have speakers.

 \_\_\_\_\_ The air must be vibrating. .

 \_\_\_\_\_ The air must be dry.

 \_\_\_\_\_ The piano must be large

3. Why does sound travel faster through wood than through water?

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4. In class we made a model guitar with rubber bands. What are some ways to make a higher pitch on the guitar? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Our homemade straw pan pipe had 8 lengths of straws. The shortest straw produced the highest pitch. WHY? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_