

Name \_\_\_\_\_

Date \_\_\_\_\_

### Sound Energy Pre – Post Poll

Choose the most correct answer.

- \_\_\_\_\_ 1. Sound travels as a wave through a medium. Through which of the following would sound NOT travel?
- A. air
  - B. outer space
  - C. the ocean
  - D. wood
- \_\_\_\_\_ 2. If I wanted to make the sound LOUDER, I would change the \_\_\_\_\_ of the sound wave?
- A. pitch
  - B. wavelength
  - C. amplitude
  - D. frequency
- \_\_\_\_\_ 3. In a sound wave, what travels in the wave?
- A. energy
  - B. frequency
  - C. particles
  - D. matter
- \_\_\_\_\_ 4. In which material would sound travel the slowest?
- A. milk
  - B. steel
  - C. brick
  - D. air
- \_\_\_\_\_ 5. A reflected sound wave that you hear is called an....
- A. opaque.
  - B. noise.
  - C. refracted wave.
  - D. echo.

- \_\_\_\_\_ 6. A person loses his hearing. The change may be due to....
- A. the ear canal is blocked.
  - B. the sound wave does not have enough energy to vibrate the eardrum.
  - C. the eardrum cannot vibrate.
  - D. all of the above.

- \_\_\_\_\_ 7. A sound's frequency determines:
- A. low high the pitch is.
  - B. how loud the sound is.
  - C. how soft the sound is.
  - D. none of the above.

- \_\_\_\_\_ 8. If a sound is high pitched and soft, the sound wave is:
- A. high frequency and high amplitude.
  - B. high frequency and low amplitude.
  - C. low frequency and high amplitude.
  - D. low frequency and low amplitude.

9. Short answer. (2 point question.)

Using straws, explain how to change the pitch when you blow air through them.

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