

Vocabulary Homework Sheet **Answer Key**

Directions: Choose a word from the word bank, and write it on the blank line to complete each sentence.

Word Bank

Acoustics Surface Area Medium Sound Vibration
Decibel Absorption Reflection Transmit Soundproofing

1. A **medium** is a material substance that can help move energy waves (such as sound) along.
2. **Sound** is a vibration that manifests itself as a wave of pressure and can be perceived by humans (depending on the frequency) via the ear. Humans can hear them when their frequency lies between 20 Hz and 20 kHz.
3. In mechanics, an oscillation of the parts of a fluid or an elastic solid whose equilibrium has been disturbed, or of an electromagnetic wave is call a **vibration**.
4. A **decibel** is a unit of measurement used to express the intensity of a sound, or the power level of an electrical signal by comparing it with a given level on a logarithmic scale.
5. **Absorption** is the process by which a material, structure, or object takes in sound energy when sound waves are encountered, as opposed to reflecting the energy.
6. **Reflection** is when sound travels in a given medium, it strikes the surface of another medium and bounces back in some other direction.
7. **Acoustics** is the qualities or characteristics of a room, auditorium, stadium, etc., that determine the audibility or fidelity of sounds in it.
8. **Soundproofing** is preventing or constructed of material that prevents, the passage of sound.
9. **Transmit** is sound passing from one room to another, normally through air, or through a material, construction or other medium.
10. The total area of the surface of a three-dimensional object is **surface area**.