

## *Sound Study Guide*

Your sound quiz will be on Tuesday, December 23.

We have studied the following “Big Ideas” about sound in school. Please review these at home.

1. **Sound** is anything that we can hear.
2. All sounds are made by vibrations. A **vibration** is a back and forth movement.
3. Sound can travel through air and other materials.
4. Sound can travel through some materials better than others.
  - a. Sound travels well through **wood, plastic, and aluminum**.
  - b. Sound does NOT travel well through **foam and pillows**.
5. Sound travels by causing vibrations in the air or other materials. It travels in waves.
6. **Pitch** is how *high* or *low* a sound is.
7. **Volume** is how *loud* or *soft* a sound is.
8. Changing vibrations can change the pitch and volume.
  - a. Fast vibrations make high and loud sounds.
  - b. Slow vibrations make low and soft sounds.
9. Sound travels through the parts of the ear (**outer ear, middle ear, and inner ear**) to the brain.
10. How can you keep your ears safe? Some examples are:
  - a. Don't put anything in your ear smaller than your elbow.
  - b. Cover your ears if there is a loud sound.
  - c. Tell someone if your ear hurts or it is hard to hear sounds.



