

Name: _____

Chapter 6 Science

Study Guide due Thursday March 8

TEST on Tuesday, March 13

Sound and Ear Facts

- Sound travels _____ than light travels.
- The only animals that have visible outer ears are _____.
- _____ use their ears to “see” in the dark.
- Speech is produced by _____ in the vocal cords.
- Sound waves travel **fastest** through _____.
- Sound is a form of **energy**.
- Sound waves (**can or cannot**) travel through empty space.
- Materials with soft, uneven surfaces tend to absorb sound
- Two ears are better than one because they help you determine _____.

Frequency and Pitch

- _____ is how many times an object vibrates each second, and frequency determines _____.
- Sounds produced from objects that vibrate very **rapidly** have a (**high /or low**) pitch.
- Sounds produced from objects that vibrate very **slowly** have a (**high or low**) pitch.
- The lowest frequency that the human ear can hear is _____ **times per second**
- The highest frequency that the human ear can hear is _____ **times per second**.
- _____ is used to determine the depth of the water and to locate objects in the sea.
- _____ **and** _____ hear the highest frequency sounds.

Parts of the Ear

- The **middle ear** includes the _____, _____, and _____.
- The _____ is the snail-shaped part of the ear that contains the actual organ of hearing.
- The _____ carries the message of sound to the brain

Important People

- _____: the inventor of the telephone
- **Thomas Edison:** The inventor of the _____
- _____: The man who proved that sound waves travel only through matter.

Label the Ear

- Be able to label the following different parts of the ear: **anvil, auditory canal, auricle, cochlea, eardrum, hammer, stirrup**

(Use pictures on page 137)