VSTARSCHOOL

MAX SCIENCE 4

Homework – Week 11

Unit 6.2: Sound All Around Us

Ranking

Student's name: _____ **Class:** _____ **Date:** _____

I. Write **TRUE** if the statement is correct and **FALSE** if not.

FALSE Sound travels faster through gases than liquids.

_____ 1. When an object vibrates, the particles of the material around it don't vibrate.

_____ 2. Sound can travel through solids, liquids and gases.

_____ 3. Sound needs a material to travel through.

_____ 4. A sound wave is the transfer of energy when particles bump into each other during vibration.

_____ 5. Dolphins have outer ears.

_____ 6. Sound cannot travel through gas.

_____ 7. Sound can travel in space.

_____ 8. Dolphins communicate by making sounds and listening to each other underwater.

_____ 9. An astronaut's helmet has a device that converts sound into a different kind of energy.

_____ 10. Sound travels through solids the fastest.

II. **Identify** what is asked. You may use **some words twice**.

sound wave	sound	solid	helmet
ears	inner ear	brain	vibration

ears **These are the body parts that detect and collect sound vibrations from the surroundings.**

_____ 1. It is the state of matter where sounds travel the fastest.

_____ 2. It is the organ that interprets the signals sent by the ears and allows us to recognize and understand sounds.

_____ 3. It is the transfer of energy when particles bump into each other during vibration.

_____ 4. It is the back-and-forth movement of particles that produces sound waves and can be detected by the ears.

_____ 5. It is where the three tiny cells that send signals to the brain are found.

_____ 6. It is the part of the body that identifies and interprets sounds.

_____ 7. It is produced when something vibrates.

_____ 8. It is a part of astronauts' spacesuit that allows them to hear and talk to each other in space.

III. Complete the diagram.

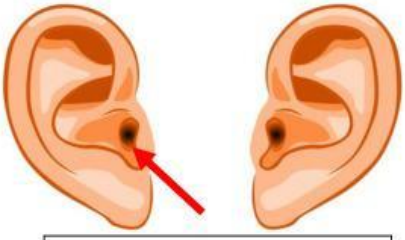
sound waves	sound	signals	vibration
outer ear	inner ear	brain	interpret
~~tiny hair cells~~	collect		



2.

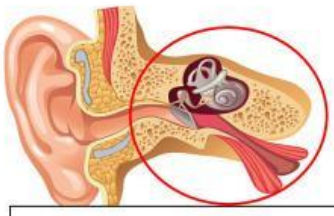
3.

1. _____



4. _____

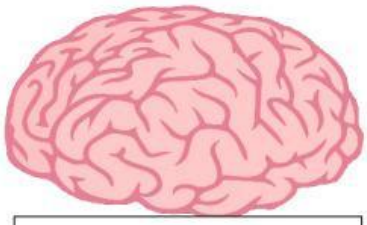
5. _____



6. _____

7. _____

tiny hair cells



8. _____

9. _____