

How do sound waves travel?

Lesson Review

Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true. Write your answers in the spaces provided.

- _____ 1. Sound waves are transverse waves.
- _____ 2. Compressions and rarefactions move in the same direction as a sound wave.
- _____ 3. A substance through which sound waves can travel is a vacuum.
- _____ 4. Sound waves cannot travel through gases, liquids, and solids.
- _____ 5. Sound waves do not need a medium through which to travel.
- _____ 6. Particles of air in a sound wave move up and down.
- _____ 7. Astronauts cannot hear sounds on the Moon.
- _____ 8. There is no air on the Moon.
- _____ 9. A refracted sound wave is called an echo.
- _____ 10. A carpeted floor will produce echoes.

Skill Challenge

Skills: *classifying, predicting*

Predict whether each of the materials or surfaces listed in the table will absorb sound or reflect sound. Complete the table by placing a check mark in the correct column.

Material	Absorb Sound	Reflect Sound
1. Cotton balls		
2. Brick wall		
3. Sidewalk		
4. Cork		
5. Wooden wall		
6. Clothes		
7. Steel bridge		
8. Glass window		