

WAVES

Name _____

WS#1

DIRECTIONS: As you learn about waves, highlight the answers in the reading before answering the questions.

A wave is a moving disturbance that travels through space and matter transferring energy from one place to another. There are two types of waves - longitudinal and transverse.

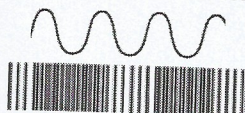
1. What is a wave?

2. Name two types of waves _____

3. Define oscillate.

4. Waves can be described by how they move. Complete the Venn Diagram for both types of waves.

move back and forth
move up and down



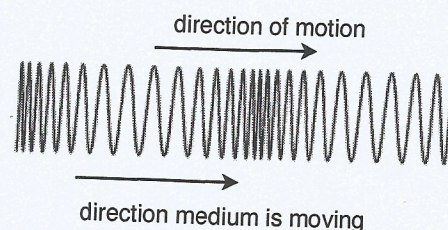
TRANSVERSE

LONGITUDINAL

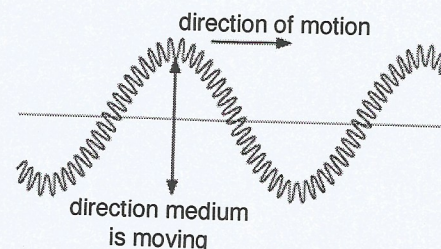
both
oscillate

Waves oscillate as they travel from one place to another. Oscillate means to vibrate back and forth or up and down.

Waves that oscillate in the same direction as the wave travels are called longitudinal waves. These waves move back and forth.



Transverse waves oscillate perpendicular to the direction that the wave travels. These waves move up and down.



Waves can be categorized also by the type of medium (substance) in which they travel.

Mechanical waves need a medium (like air, water or any solid) in order for it to travel. Electromagnetic waves do not travel through a medium. They travel through empty space or a vacuum.

Light and sound are two forms of energy that are transported from one place to another through waves. Sound travels through mechanical waves while light travels through electromagnetic waves.

5.

