

## Mechanical Waves Vs. Electromagnetic Waves

Mechanical waves are waves that need a \_\_\_\_\_ to travel through.

The wave is said to be transverse when the motion of the \_\_\_\_\_ in the medium are \_\_\_\_\_ to the \_\_\_\_\_ of motion of the wave.

The wave is \_\_\_\_\_ when the direction of motion of the \_\_\_\_\_ is \_\_\_\_\_ to the direction of motion of the \_\_\_\_\_.

Electromagnetic waves are waves that do not \_\_\_\_\_ a medium to travel through. They can also travel through a \_\_\_\_\_ (empty space).

Waves carry \_\_\_\_\_ and not \_\_\_\_\_.