

a medium can carry a longitudinal wave because it has the property of

**Solution:**

Longitudinal waves, also known as "l-waves", are waves in which the displacement of the medium is in the same direction as, or the opposite direction to, the direction of travel of the wave. Mechanical longitudinal waves are also called compressional waves or compression waves, because they produce compression and rarefaction when traveling through a medium.

**Answer:** a medium can carry a longitudinal wave because it has the property of compression.