

ENERGY OF WAVES

A wave is a disturbance that carries energy through a medium. Lagoon is full of screaming participants enjoying themselves on the rides. When a rider screams, their vocal chords vibrate causing alternating high and low pressure to emanate from their mouth. Those high and low pressure bursts cause energy to travel through the air (the medium) to your ear and you hear the scream. When the pressure waves reach your ear, it causes your eardrum to move back and forth at the same rate as the screamer's vocal chords. In physics terms, it is acoustic energy transmitted as pressure waves through the air.



Acoustic energy is one form of energy that waves travel in. There are many other forms of energy that produce waves. Lagoon is full of examples. Let's go on a scavenger hunt and discover the energy of waves all around us.

Fill in the following table with the type of energy being transferred, the energy source, the form energy is transferred in, and the medium in which the energy travels.

Ride or Activity	Type of Energy Transferred	Energy Source	Form the Energy is Transferred In	Medium
Screaming	Acoustic (Sound)	Screamer's Vocal Chords	Air Pressure Waves	Air
Log Flume				
Rattlesnake Rapids				
Rocket				
Flashing Lights				
Turn-of-the-Century				
Sky Scraper				
Vibrations of a Motor				