What is a wave?	A wave is a disturbance that transfers energy.
What is a longitudinal wave?	A longitudinal wave is a wave in which the direction of the disturbance and the direction of the wave are the
menmon	same.
MM MM Compressions	Sound and a slinky moving are examples of a longitudinal wave.
What is a mechanical wave?	A mechanical wave is a wave that transfers energy through matter.
	Transverse and longitudinal waves are two kinds of mechanical waves.
What is a transverse wave?  EDirection of the disturbance	A transverse wave is a wave in which the direction of the disturbance and the direction of the wave are perpendicular. It transfers energy at right angles of the disturbance.
Direction of the wave	Some examples are a wave moving through water and a rope being snapped up and down.
What is a medium?	A medium is a substance that a wave can move through.
	Some examples are water, air, ground, and rope.

What is a disturbance?	A disturbance is a change in the motion of the medium.
What is frequency?	Frequency is how many waves pass in a certain amount of time.
How do you measure the frequency of a transverse wave?	Count the number of crests or troughs passing a point in a certain amount of time.
What is a wavelength?	A wavelength is the length of a wave.
How do you measure the wavelength of a transverse wave? Verest to crest	Count from crest to crest or trough to trough.
What is a compression?  My  T	A compression describes the part of a pressure wave where the vibrating particles are close together.  Think of the slinky example where you could see the compressions moving along the slinky.

How do you measure the wavelength of a longitudinal wave? <u>Compressions</u> MM  MM	Measure from the center of the compression to the center of the next compression,
What is amplitude?	Amplitude is the amount of energy in both a transverse and longitudinal wave.
How do you measure amplitude in a	Measure from resting point to crest
transverse wave?	or resting point to trough.  You are measuring the height of the wave from its resting point.
How do you measure amplitude in a longitudinal wave?	You measure how compressed the medium is.
How are people in a stadium doing "the wave" a model for the way a transverse wave moves?	People move up and down but energy (the wave) moves side to side.

How can a wave move through a medium and yet the medium stays in place?	The energy is passing through the medium but the medium itself is not traveling with the energy. There is a disturbance in the medium as the energy travels through.
How is frequency related to wavelength?	The higher the frequency, the smaller the wavelength.  The lower the frequency, the bigger
	the wavelength.
Which wave has more energy?	B is bigger because the amplitude is bigger.
Use high/low to identify frequency and wavelength	High frequency Low wavelength
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Use high/low to identify frequency and wavelength	Low frequency High wavelength
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