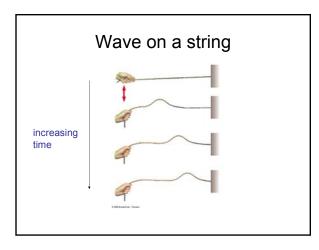
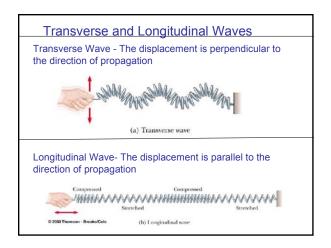
1.2 Waves

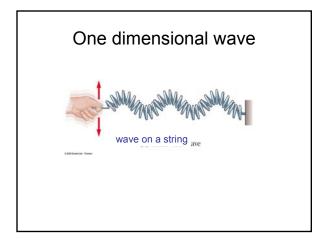
- Wave properties
 - speed
 - wavelength
- Example wave on a string

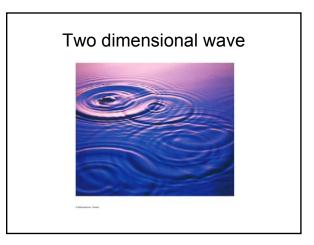
Waves

- A wave is a disturbance that propagates through distance with a certain speed. The disturbance carries energy but does not carry mass. (called traveling waves)
- Mechanical Waves- water wave, sound propagate through matter.
- Electromagnetic Waves radio, x-ray, light can propagate through a vacuum.











Transverse and Longitudinal Waves

- The transverse and longitudinal waves depend on different mechanical properties of the material.
- The speed of the transverse and longitudinal waves are different.
- Example. earthquakes

