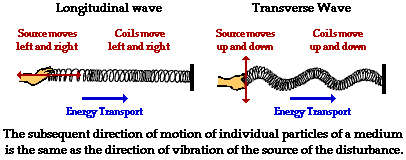
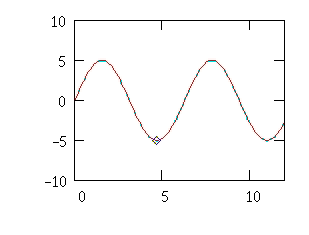
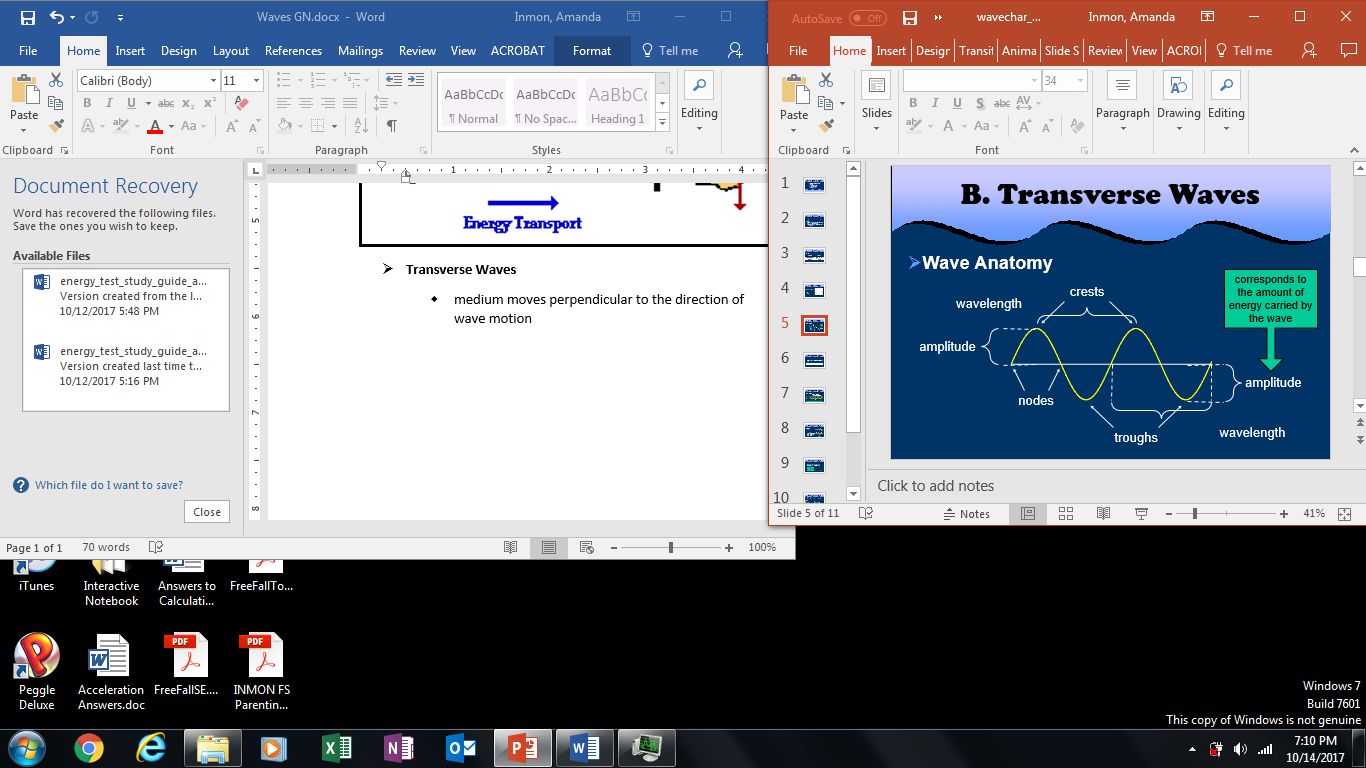
**Characteristics of Waves**

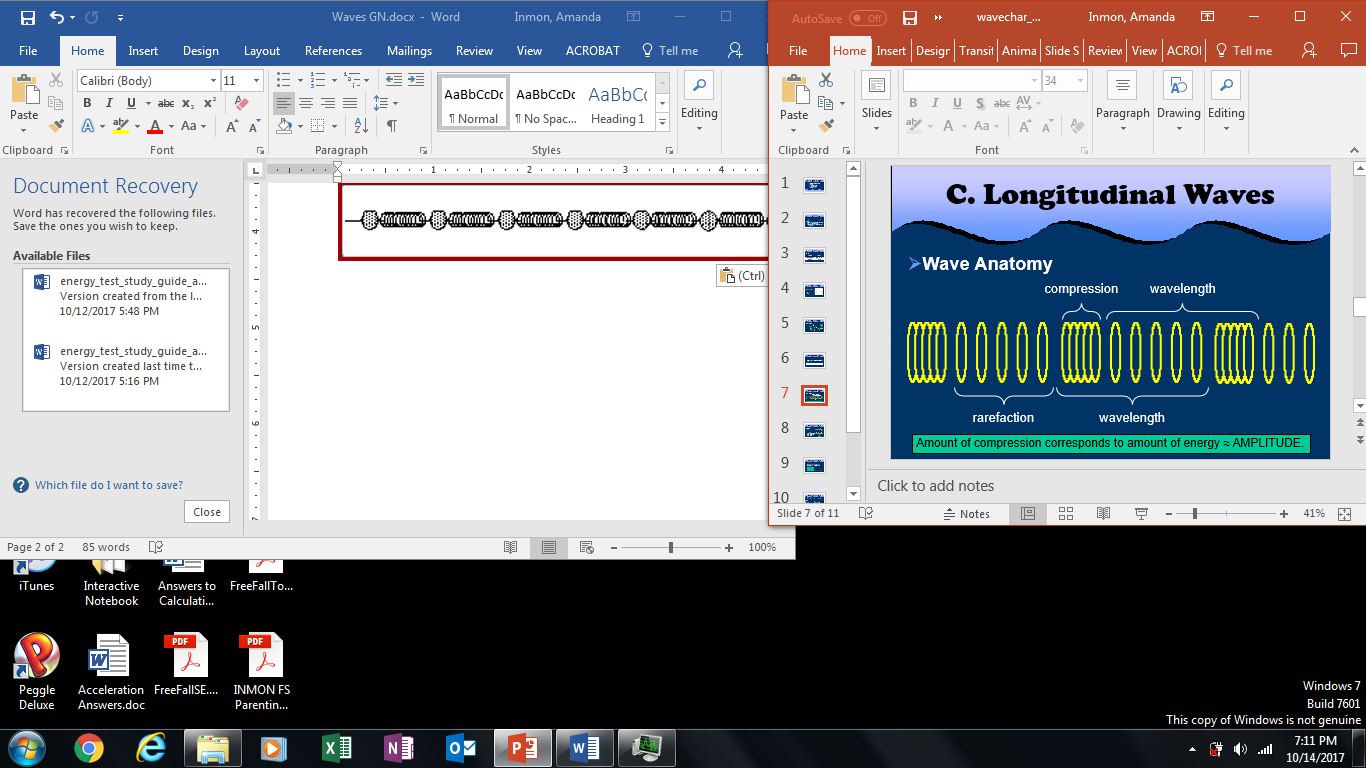
* + Waves
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ waves
  + Longitudinal waves
  + Measuring waves
* **Waves**
  + rhythmic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that carry energy through matter or space
* **Medium**
  + material through which a wave transfers energy
  + solid, liquid, gas, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + electromagnetic waves don’t need a medium (e.g. visible light)
* **Two Types:**

Longitudinal Transverse

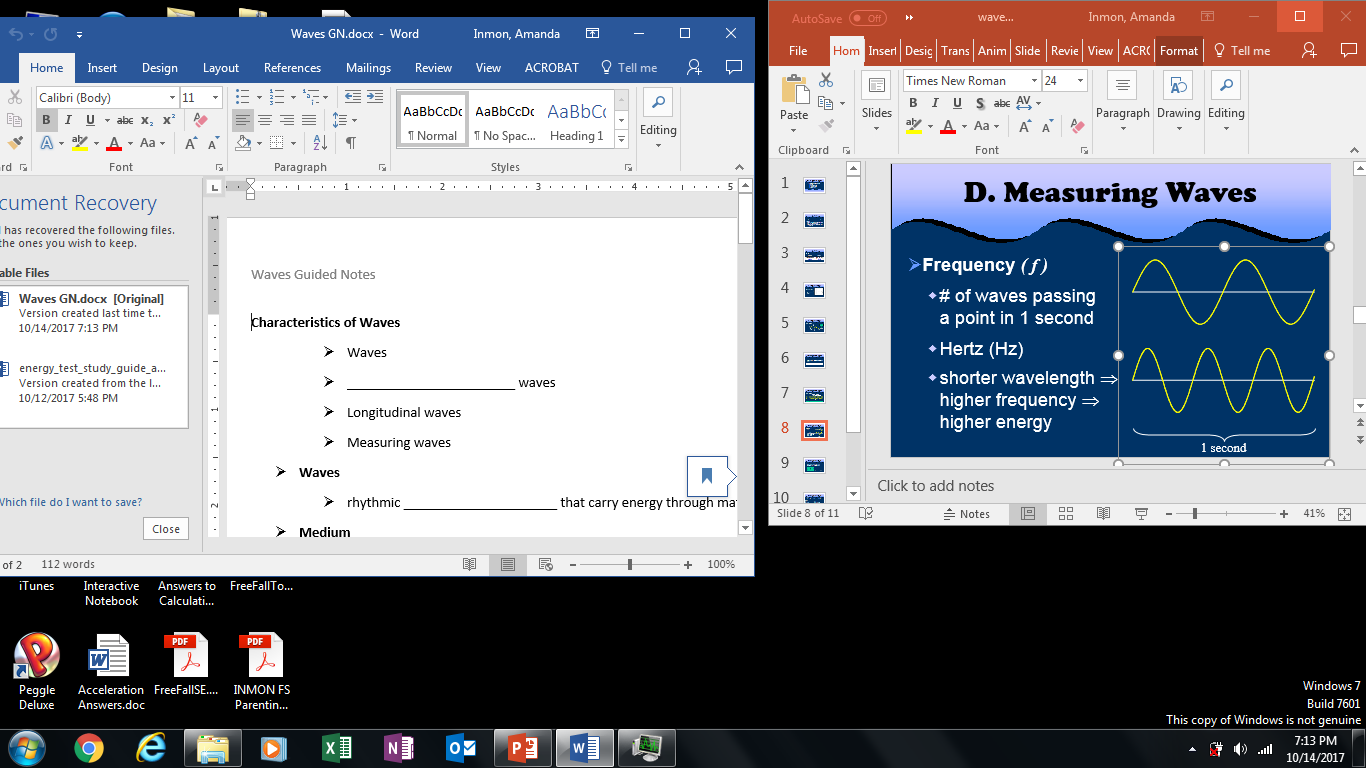


* **Transverse Waves**
  + medium moves perpendicular to the direction of wave motion



* **Longitudinal Waves** (a.k.a. compressional)
  + \_\_\_\_\_\_\_\_\_\_\_\_\_ moves in the same direction as wave motion





* **Frequency** ***( f )***
  + # of waves passing a point in 1 second
  + Hertz (Hz)
  + shorter wavelength ⇒ higher \_\_\_\_\_\_\_\_\_\_\_ ⇒ higher energy

