**GUIDED NOTES – WAVES PPT**

List all the waves you can think of.
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What do waves transfer?

In the picture on the PowerPoint, what is happening to the gravitational potential energy of the drop?

Transverse
The motion of the medium is at \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ to the direction in which a wave travels
Stretched strings of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, electromagnetic waves, \_\_\_\_\_\_\_\_\_\_\_\_ in earthquakes

 Longitudinal
The particles of the medium move back and forth in the \_\_\_\_\_\_\_\_\_ direction in which the wave travels
\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_, P-waves in earthquakes

What type of wave is an ocean wave?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – Number of cycles per unit of time (s), measured in Hz
Frequency = 1/\_\_\_\_\_\_\_\_\_\_\_\_
 Period = 1/\_\_\_\_\_\_\_\_\_\_\_
Hz – One \_\_\_\_\_\_\_\_\_\_ per second
Wave Speed = \_\_\_\_\_\_\_\_\_\_\_\_\_\* frequency
ν=λf

 \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ depends on the medium through which the wave moves

\_\_\_\_\_\_\_\_\_\_ = Rate \* Time (D=RT)

\_\_\_\_\_\_\_\_\_\_ = Distance / Time (R=D/T)

We are constantly interacting with \_\_\_\_\_\_\_\_\_\_

Waves carry \_\_\_\_\_\_\_\_\_\_

Light and S-waves are examples of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ waves.

 Sound and P-waves are examples of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ waves.