Waves Review

1. Why were our eyes tricked by the “Illusionist” video?
2. Why are we able to see lightening before we hear thunder?
3. What is the definition of a wave? (Hint: How do waves travel?)
4. What are the parts to a wave? Describe each.
5. Draw a light wave. Label amplitude and wavelength.
6. Draw a sound wave. Label amplitude and wavelength. What do we call this type of wave?
7. Describe what happens to a wave as it moves from the source, to an object and then back using the following vocabulary words: absorbed, particle movement, transported, medium, and reflected.
8. What can sound waves travel through? What type of materials do sound waves move through the fastest?
9. What can light waves travel through? What type of materials do light waves move through the fastest?
10. Describe what happens to the wavelength, frequency, and amplitude of light waves if we go from a bright light to a dim light.
11. Describe what happens to the wavelength, frequency, and amplitude of sound waves if we go from a high pitch to a low pitch.
12. What happens when we change the frequency of light waves?
13. What is the difference between wave reflection and wave refraction?