**Wave Behavior Venn Diagram**

**Directions:**

**First:** Place the information/example listed below into the Venn diagram.

**Second**: For numbers 7-13 write the name of the demonstrated property on the line next to the example.

|  |  |
| --- | --- |
| #1 Requires a medium | #2 Does not require a medium |
| #3 Light waves | #4 sound waves |
| #5 Energy is lost after Reflection  | #6 Wavelength increases after diffraction |
| #7 a straw looks bent in water:\_\_\_\_\_\_\_\_\_\_\_\_ | #8 light will separate into colors:\_\_\_\_\_\_\_\_\_\_\_\_ |
| #9 light bounces off a mirror:\_\_\_\_\_\_\_\_\_\_\_\_\_ | #10 water waves will bend around a barrier:\_\_\_\_\_\_\_\_ |
| #11 sound will bounce off a cliff as an echo: \_\_\_\_\_\_\_\_\_\_\_ | #12 light will shine down a hallway: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| #13 sound changes speed in different mediums: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | #14 transfer of energy |



Electromagnetic Waves

Mechanical Waves

Both