Properties of Light & Electromagnetic Spectrum Activities

loreescience

1. The speed of light

- Use the Speed of Light Visualizer to determine how long it takes light to travel between:

  Toronto to **Madagascar**: Distance: _____ Time: _____

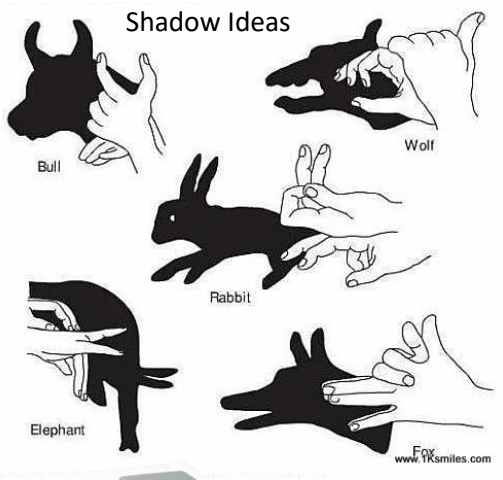
  Puerto Rico to **Sydney, Australia:** Distance: _____ Time: _____

  You choose the locations:

  _____ **to** _____**:** Distance: _____ Time: _____

2. Light Travels In Straight Lines

- Use a **light ray box** to **prove** that light travels in straight lines. Be creative. Take a **picture** of your idea & show Ms. Loree.

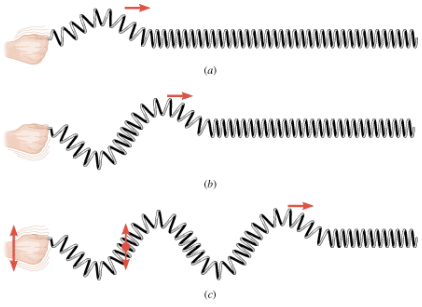


- Create 3 different shaped shadows. Take a **picture** of each & show Ms. Loree.

- Use a **light ray box** to figure out what happens to the shadow when you move the light ray box closer to an opaque object? It gets _____

- **Shadow Activity**
  1. Place a rubber stopper on a piece of paper
  2. Aim light from ray box at stopper (full light coming out)
  3. Trace outline of stopper and edges of shadow
  4. Label: light source, stopper & shadow

3. Light Travels as Waves



- Watch the Eureka! Radiation Spectrum Video in EdPuzzle

- Complete **Mix & match #1** and **Mix & match #2**

- Use a **slinky** to compare different colour waves in the spectrum.

  Show Ms. Loree

- Use a light ray box & prism to prove white light is really made up of many colours Take a picture & show Ms. Loree