\_\_\_\_\_\_\_\_\_\_\_ = the \_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of electromagnetic waves

**Light Prisms**

These are tools that use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to spread out the different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which make up white light.

**White Light**

White light is all the colors of visible light \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Colors of Light**

Each wavelength creates a different \_\_\_\_\_\_\_\_\_\_\_\_\_\_

* + This means that each color of light bends at a different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Two factors determine the color of an object:

* + Wavelengths that the object \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Wavelengths present in light that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on object

**Primary Colors of Light**:

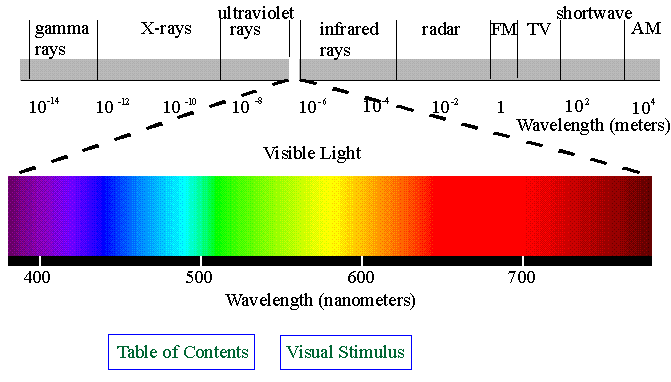
\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Electromagnetic Spectrum**

The range of all electromagnetic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Usually represented in a diagram.

**Visible Light**

The part of the electromagnetic spectrum that \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ can see

Longest wavelengths are \_\_\_\_\_\_\_\_\_\_\_\_ and the shortest are \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Seven Colors of Visible Light:** \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_

**Reflection and Absorption**

Visible light can either be reflected or absorbed

1. If it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ then the wave bounces back after striking the object
2. If it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ then the wave is taken in by the object and its energy is changed to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_.