

LIGHT UP THE 18th CENTURY

Physical Science

Student Name: _____ Date: _____

PART 1: INTERACTIONS OF LIGHT

The video showed examples of light interacting with materials in interesting ways.



1. Describe examples of light waves being reflected.

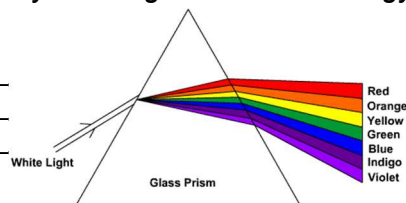
2. Describe examples of light waves being refracted.



3. Describe examples of light waves interacting with one another through interference or diffraction.

PART 2: COLOR AND WAVELENGTH

1. When light is refracted by a prism, we perceive different wavelengths of the light as color. Using what you know about wavelength and frequency, explain why violet light has more energy than red?



2. White light is the sum of all colors of light.

Knowing this, explain why light-colored clothing helps us feel cooler than dark-colored clothing.

