Note Taking Guide - Wave Interactions - Part 1

prism - separates _________ into the ___________ of the visible spectrum

[Diagram of light paths through a prism]

______ light

______ light

______ light

______ light is a combination of ______ colors of the _________ spectrum.

notes on rainbows -

[Diagram of rainbow formation]

Each H₂O drop acts as a __________, separating ___________
light into its ____________.

[Diagram of sunlight dispersing through raindrops]
The color of an object depends on-

Objects __________ certain frequencies of light and __________ or __________ the rest.

_________ objects ___________ objects

Why does a green leaf look green?

If no frequencies of light are absorbed, we see ____________.

White __________ all colors.

If all frequencies of light are absorbed, we see ____________.

_________ reflects no colors.

Primary colors - _________ Primary colors are ___chromatic.

Red + green = __________

Red + blue = ___________

Green + blue = __________

Primary colors are called ____________ colors, because they add up to _________.
What is the complement of green?  _____________  
(Complements are located ________ from each other on the color triangle.)

Examples-
•  Pixels on a TV are beams of light that glow ___________, ______________, or  
_____________.  When all three light up, you see ______________.  When red and green  
light up, you see ______________.  
•  ______________ in a theater are made of ___________, ___________, and ____________  
lights.

Problem Set #1: (1-6)