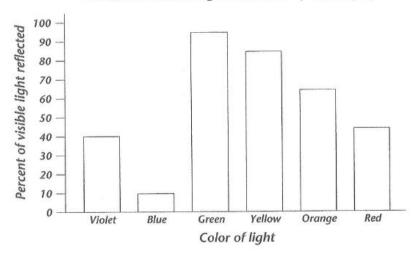
nach Chromatography Lab Notes	Name:			
	Period:		Page:	
Concepts:				
<i>t</i> :				
is made up of	different	, and the t	and the type of light	
our eyes can detect is known as		,	, i	
light or white light	=			
When we look at an object, the				
off the object.	J		<u> </u>	
The rest of the in object.	light g	get	by the	
For example, if I am looking at a	fire truck	light is		
off the fire truck and the other colors are		_		
, in organisms t absorb	ne produce then own roo	ou un ough		
are che	micals that give an objec	t color. The _		
color is seen by us when that specific co				
In the, there is	a pigment known as			
is tl	ne	_ or chemical	used to	
sunlight energy used for the process of _		·		
reflects	light	. Plants appea	r	
because of the		1	ight and absorbing tl	
other colors of light.				
	_ mostly absorbs two col	_		
		and		
		and		
	_ absorbs yll breaks down in plants	s, and leaves s	light the best tart to turn colors.	

Chlorophyll and the Color of Light

A pigment is a colored chemical compound that absorbs light. You can think of a pigment as a kind of sponge that absorbs light of all colors except the ones that it transmits and reflects. The colors that you see are the colors of light that the pigment reflects. The bar graph below shows the percentages of light of different colors that are reflected by the plant pigment chlorophyll.

Percent of Visible Light Reflected by Chlorophyll



Directions: Answer the following questions in a complete sentence.

- 1. Which color of light does chlorophyll reflect the most? About what percent of light of this color does chlorophyll reflect?
- 2. Which color of light does chlorophyll absorb most? About what percent of light of this color does chlorophyll absorb?
- 3. The colors that are reflected less than 50% contribute very little to what the eyes sees. Which colors does your respond to when you look at a "green" leaf?
- 4. Which colors of light do you not see when you look at a "green" leaf?
- 5. Explain in your own works how chlorophyll makes a leaf look green.