Internet Assignment: Visible Light

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_

<http://wps.prenhall.com/wps/media/objects/1109/1135896/8_1.html>



1. Label the diagram above (MAKE SURE TO COLOR IN YOUR SPECTRUM AS WELL!)
2. What happens to sunlight when it is passed through a prism
3. What happens to light rays when the hit a green leaf
4. Which light provides energy to drive photosynthesis?
5. What does the color of a leaf indicate

MAKE SURE TO WORK THROUGH EXERCISES 1 & 2 ON THE LEFT OF THE SCREEN!

Within the visible spectrum (390-760 nm), \_\_\_\_\_\_light has the shortest wavelength and \_\_\_\_\_\_\_light the longest.

GREEN/ ORANGE

VIOLET / RED

BLUE/ GREEN

RED/ WHITE

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   | You just purchased a really cool lamp that has a green plastic shade that surrounds the light bulb. You put a plant under the lamp but it dies within a week. What has happened?

|  |  |
| --- | --- |
|  | The wavelength of green light is too short to drive photosynthesis |
|  | Something is wrong with the plant's chlorophyll |
|  | The green light produced by the lamp is not utilized for photosynthesis |
|  | Plants can't live under artificial light |

 |