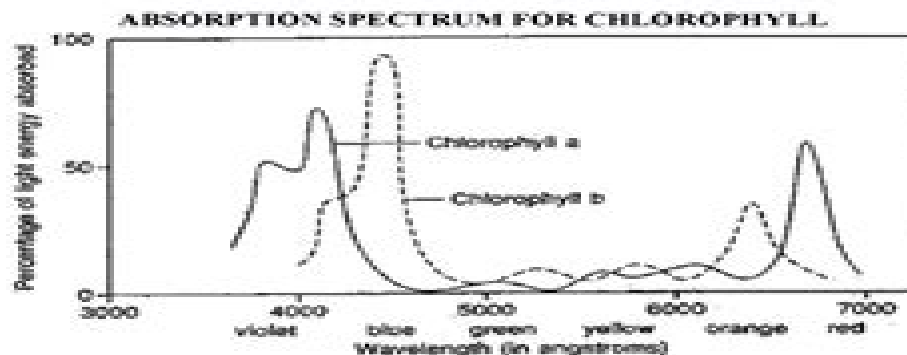


Name _____

The Absorption of Chlorophyll

A pigment is a substance that absorbs and reflects light of particular wavelengths. For example, the yellow-green color of a leaf is due to a pigment in the leaf called chlorophyll. When white light (which contains all of the colors of the spectrum) shines on chlorophyll, the chlorophyll absorbs most of the red, orange, blue, and violet and reflects most of the green and yellow. That is why you see a yellow-green color. Think of a pigment as a sponge that soaks up all of the other colors of the spectrum except the one you see.

A spectrophotometer is an instrument that is used to measure the amount of light absorbed by a pigment. Below is a graph showing the percentage of light energy reflected for the absorption spectrum for chlorophyll. The highest peaks represent colors that chlorophyll absorbs the most. Therefore, they are the least visible.



Directions: Use the above graph to answer the following questions.

1. Which of the colors absorbed by chlorophyll is least visible?

A: blue

2. What is its approximate wavelength for these colors?

A: 4500

3. What percentage of light energy absorbed does this peak represent?

A: 90

4. How much of this color is being reflected?

A: 10

5. What percentage of light energy absorbed by chlorophyll does the orange spectrum peak represent?

A: 30

6. Why would you say there are no peaks in the range between 5000 angstroms and 6100 angstroms?

A: Because those colors are being reflected

7. Are you able to see the light in the yellow-green part of the spectrum? Explain why.

A: Yes because green and yellow are those that are reflected

Absorption Of Chlorophyll Answers

Sundar Nathan



Absorption Of Chlorophyll Answers:

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