

Study Guide 8 and 9

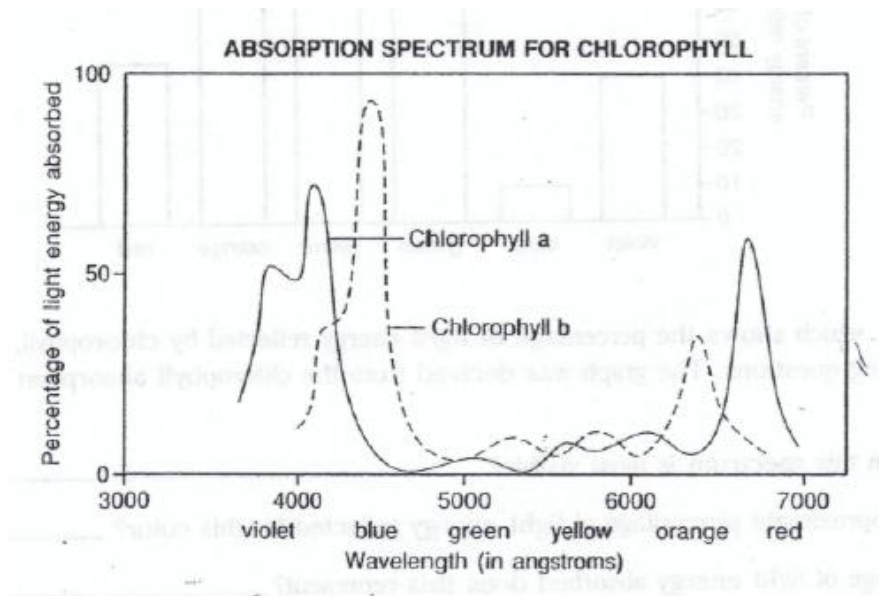
1. _____ Organisms, such as plants, that make their own food.
 2. _____ Organisms that cannot make their own food and must obtain
 3. _____ energy from the foods they eat.
 4. _____ Energy molecule with 3 phosphates and acts like a fully charged battery.
 5. _____ Absorbs the sun's light.
 6. _____ The main light absorbing molecules in plants (absorbs red, blue and violet)
 7. _____ stacks of thylakoids are called this.
 8. _____ space outside the thylakoids
- 9. Draw and label the 3 parts of an ATP molecule. Show where most of the energy is stored and state what the molecule is called when it loses the last phosphate.**
- 10. Write the overall equations for photosynthesis and cellular respiration**
- Photosynthesis:**
- Cellular Respiration:**
- 11. List the 3 steps of Cellular respiration and state where each step takes place in the cell.**
- 12. If a plant appears blue-green state what colors the plant reflects and what colors the plant will absorb.**

13. List the 3 electron carriers for the photosynthesis and cellular respiration: State which goes with which process

Photo:

Cell Resp

Using the below graph answer questions 14, 15 and 16.



14. List the Colors that Chlorophyll a absorbs from least to most visible
15. Which wavelength of light does chlorophyll b absorb the most?
16. What advantage does it give a plant to have more than one type of pigment
17. What is the importance of Cell membranes
18. List the macromolecules and their monomers

Fill the blanks for the following three diagrams

Photosynthesis Diagram (on the test)

