

## Photosynthesis Study Guide

1. Define each kind of energy and explain where you would find each one in Photosynthesis.
  - a. Potential Energy
  - b. Light Energy
  - c. Chemical Energy
2. Write the Equation for Photosynthesis
3. Write the Equation for Cellular Respiration
4. Describe the relationship between Cellular Respiration and Photosynthesis.
  - a. How could I use Bromothymol Blue to test this relationship?
5. Define:
  - a. Chloroplast
  - b. Chlorophyll
  - c. Thylakoids
  - d. Grana
6. Which color of light is NOT absorbed in photosynthesis? How do you know?
7. What are the products of the Light Dependent Reactions? (Use the flow chart)

8. What are the products of the Light Independent Reactions (Calvin Cycle)? (Use the flow chart)

9. Where does the light Independent Reaction occur in the Chloroplast?

10. Define

- a. Xylem
- b. Phloem
- c. Stomata
- d. Chemosynthesis

11. List the Factors impacting Photosynthesis

Leaf Structure. GT Only

Define:

1. Cuticle
2. Epidermis
3. Palisade Mesophyll
4. Spongy Mesophyll
5. Vein or Vascular Bundle
6. Xylem
7. Phloem
8. Stomata
9. Guard Cells