**Name: Period: Date:**

**Focus Questions for Chapter 10.2 (Light Reactions) due Wednesday, 3/19**

# Questions to answer as you read about the light reactions of photosynthesis. You will not be asked to turn these in, but Ms. Ransom may check to make sure you have completed them through a clicker quiz or short written response. You should be ready to discuss the answers during class.

1. Light behaves as energy (a wave) AND a particle. How is the **wavelength** of light related to its color? What is a “particle” of light called?
2. What are **chlorophyll *a*, chlorophyll *b*,**  and **carotenoids**?   
     
   1. What wavelengths of light do they ***absorb****?*
   2. What color do they ***appear***?
3. Discuss the importance of carotenoids in **photoprotection.**
4. What is a **photosystem**? What important function does it (or do they—there are two of them) have?
5. What is **chemiosmosis**? Where does it happen in the chloroplast? *Note that it also occurs in mitochondria, so remember this for next week when we study respiration.*

**Questions I have that I plan to ask about in class:**