**Name: Period: Date:**

**Focus Questions for Chapter 39.3 and 36.2 (Plant Responses to Light) due Thursday, 10/8**

# Questions to answer as you watch the videos and/or read about plant responses to light. 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. Remember **circadian rhythms** from our discussion of animal homeostasis (define it again if you have forgotten what it means). Give two different examples of circadian rhythms in plants.
2. Explain how scientists think genes may be involved in the maintenance of the biological clock.
3. What environmental factor regulates the biological clock of plants so that it follows a 24-hour cycle?
4. What is a *photoperiod*? Give an example of **photoperiodism** in plants. Why is photoperiodism important?
5. Distinguish between a **short-day plant**, a **long-day plant**, and a **day-neutral plant**. Give examples of each.
6. Why are the terms “short-day” and “long-day” misnomers when describing plant photoperiodism?
7. What is the major function of **auxin** in a plant?
8. Briefly explain the *acid growth hypothesis*.
9. Explain the practical use of auxin as an herbicide.

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