**Bio 1 Chapter 8-9 reading Q’s**  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ per\_\_\_\_\_\_ Due Date\_\_\_\_\_\_\_

**Chapter 8 p. 225**

1. Read the Chapter Mystery on p. 225. Describe Jan van Helmont’s experiment. What is he trying to discover?
2. What pigments are used in photosynthesis and what is the role of each? List and explain below.
3. Where is chlorophyll found? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Make a labeled drawing of this organelle (see p. 231).
4. Write the reaction for photosynthesis in words and in symbols. Describe in your own words what happens.
5. What is used up in the light-**dependent** reactions and what is produced?
6. What is used up in the light-**independent** reactions and what is produced?
7. Go to page 238 and read about the Calvin Cycle. What are the reactants and products of these reactions?
8. What factors can affect photosynthesis? What do you think the optimum ranges are for plants in Montana?
9. Solve the Chapter Mystery on p. 245 and answer the first 3 questions.

**Chapter 9 p. 249**

1. Read the chapter mystery on p. 249. What is special about the whales?
2. Define cellular respiration:
3. Write the reaction for respiration in words and in symbols. Describe in your own words what happens.
4. Compare and Contrast the 2 types of cell respiration (p. 252).
5. What is the relationship between photosynthesis and respiration?
6. Read about the process of glycolysis. What are the reactants and products?
7. What happens in the Kreb’s cycle?
8. What is the total energy produced in glycolysis, the Kreb’s cycle and the ETC (aerobic respiration)? \_\_\_\_\_\_\_
9. Read about Creatine on p. 261 and give your opinion. List at least 2 pieces of evidence for your opinion.
10. How is fermentation different from aerobic respiration? What the two types and their equations?
11. Solve the chapter mystery on p. 269 and answer the 4 questions.