**Name: Period: Date:**

**Focus Questions for Chapter 9.5 (Fermentation) and 27.3 (Diverse Metabolism) due Tuesday, 4/1**

# Questions to answer as you read about “alternative” metabolic pathways. 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. What are the two general methods of generating ATP that do NOT require oxygen? Briefly describe them.
2. Compare and contrast alcohol fermentation with lactic acid fermentation.
3. Summarize the difference between fermentation and anaerobic respiration.
4. What is a **biofilm**? How do the organisms within a biofilm coordinate their activities?
5. Make a simple Venn diagram to compare **photoautotrophs** and **chemoautotrophs**. Then make a second Venn diagram for **photoheterotrophs** and **chemoheterotrophs**.
6. What is nitrogen fixation and why is it important?
7. How are **facultative** and **obligate** anaerobes similar? How do they differ?

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