**Name: Period: Date:**

**Focus Questions for Chapter 27.2 (Prokaryotic Genetics) due Wednesday, 1/29**

# Questions to answer as you read about prokaryotic genetics. 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. Since prokaryotic cells typically reproduce asexually, what accounts for their extraordinary genetic diversity?
2. Even though prokaryotes don’t undergo meiosis and fertilization, what three methods do they have to “shuffle” their genetic material?
3. What is **transformation**?
4. What is **transduction**?
5. What is **conjugation**?
6. What is a **plasmid**? Why are they important?
7. What determines whether or not a bacterial cell can form **pili**? (For that matter, what are *pili*?)

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