

Name:

Date:

AP Biology Prelab for Lab 6: Molecular Genetics

Part 6A: Bacterial Transformation

1. Explain what happens during the process of bacterial transformation.
2. Explain the similarities and differences of the bacterial genome and plasmids.
3. What are the benefits of plasmids to prokaryotes? How can plasmids be transferred from one bacterium to another?
4. Draw a rough diagram of the recombinant pGLO plasmid. Include any genes and DNA sequences of note. Explain the origin and function of each.
5. How will the pGLO plasmid be introduced into the *E. coli* bacterium in this lab?

