

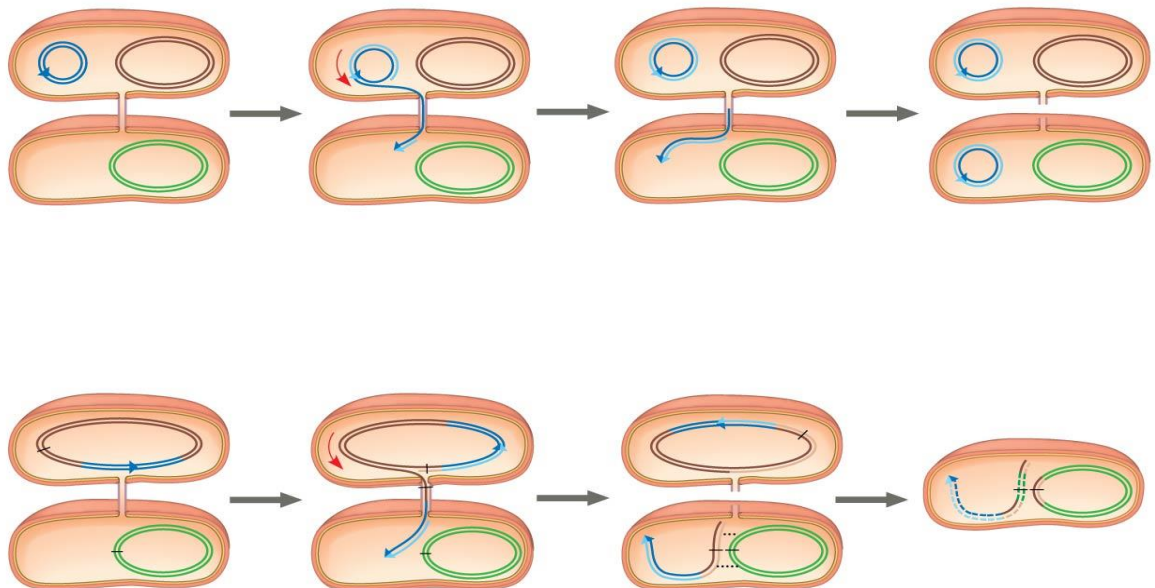
AP Biology
Guided Reading Chapter 27.2: Bacteria and Archaea
10ed

Name: _____

- Although mutation is the major source of genetic variation in prokaryotes, the following chart lists the other three ways variation is introduced. Explain each one.

Source of Variation	Summary Explanation
Recombination	
Transformation	
Transduction	

- What is *horizontal gene transfer*? How is it accomplished in bacteria?
- What is a *sex pilus*? What is the *F factor*? How are the two related?
- Label the following diagram and annotate what occurs in bacterial *conjunction*?



- What are *R plasmids*?