

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Prokaryotes vs Eukaryotes

*Directions: Write either Eukaryote (E), Prokaryote (P), or Both (B) before each statement.*

- ( ) Contains mitochondria
- ( ) Transduction is a form of genetic recombination that can occur
- ( ) The electron transport chain occurs in the cellular membrane
- ( ) Can contain a cell wall and cell membrane
- ( ) Contains the kingdom fungi
- ( ) Houses a circular chromosome as its main genetic material
- ( ) Has no membrane-bound organelles
- ( ) Has a nucleus
- ( ) Contains cytoplasm within its membrane
- ( ) Meiosis is a form of genetic recombination that can occur
- ( ) Conjugation is a form of genetic recombination that can occur
- ( ) Contain the kingdom protista
- ( ) Can use post-transcriptional modifications to create mature RNA
- ( ) Can use post-translational modifications to regulate proteins
- ( ) In a natural setting can use plasmids to express genes not found in their chromosome(s)
- ( ) Contains a nucleoid
- ( ) Contain ribosomes
- ( ) Contains a Golgi apparatus
- ( ) Contains the domain Archaea

