

Name: _____

Date: _____

Prokaryotes vs Eukaryotes

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

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

