

Name:

Date:

Period:

Three domains of life: Bacteria, Archaea, and Eukarya

	Archaea (old bacteria)	Bacteria	Eukarya
Multicellular or Unicellular			
Cell Wall or No Cell Wall			
Eukaryote or Prokaryote			
Autotroph or Heterotroph			
Stationary or Mobile			

1. Which two Domains contain organisms that do not have a nucleus in their cells?

_____ & _____

2. Which organisms in Domain Eukarya can make their own food? _____ and _____

3. Which two Domains have ONLY unicellular organisms? _____ and _____

4. If I found a new organism that was One cell big, could make its own food, had a nucleus in its cell, but did not contain a cell wall. Which Domain would you classify it under, and why?

Six Kingdoms of life

	Multicellular or Unicellular	Cell wall or No Cell Wall	Eukaryote or Prokaryote	Autotroph or Heterotroph	Stationary or Mobile
Archaeabacteria					
Eubacteria					
Protista					
Fungi					
Plantae					
Animalia					

Use the chart above to answer the questions:

- How are members of the kingdom Eubacteria **similar** to members of the kingdom Protista?

How are members of the kingdom Eubacteria **different** from members of the kingdom Protista?

- How do fungi get their food? _____
- Why are plants and fungi placed in separate kingdoms? _____
- How has technology affected classification? _____
- You are a taxonomist who has just discovered a new organism and you have to place it into one of the kingdoms. The organism seems to make its own food by utilizing its chlorophyll. The organism is only one cell big and is capable of moving freely. In addition to chlorophyll, the organism has several other organelles, including a nucleus. Which kingdom does your organism belong to? **Make sure to support your answer with facts from the chart above**