

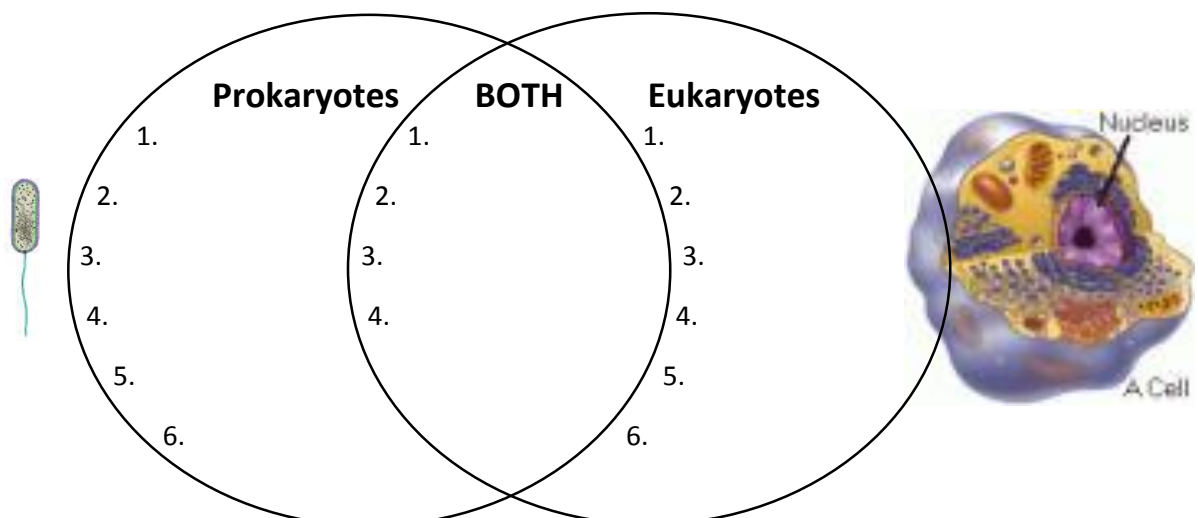
Name: _____ Date: _____ Period: _____

Evidence 1: Cell Comparison

Option 2: Video

Go to www.biologybynapiet.com, select the Cell Unit in left margin scroll down to Evidence 1: Cell Comparison and click on the link "Prokaryote vs Eukaryote" to watch the video. Answer the questions below while watching the video.

1. What are the two major type of cells?
2. Which one has been around the longest?
3. Why is it good for prokaryotes to be so much smaller than a eukaryotic cells?
4. What does the word "prokaryote" mean?
5. List the 5 main parts of a prokaryotic cell.
6. What do many prokaryotes have for movement?
7. What surrounds the organelles in eukaryotes that does not surround the organelles in prokaryotes?
8. What does the word "eukaryote" mean?
9. What is the difference in shape of DNA between prokaryotes and eukaryotes? Be specific.
10. Fill in the Venn Diagram below as it is done in the video.



Endosymbiosis

Go to www.biologybynapiet.com , select the Cell Unit in left margin scroll down to Evidence 1: Cell Comparison and click on the link “Endosymbiosis” to watch the video. Answer the questions below while watching the video.

1. What were the first living organisms on Earth?
2. Briefly describe the 3 types of prokaryotic cells below.
3. Explain what happened between the cells to create more complex cells?
4. Briefly explain the endosymbiotic theory.
5. What do we now call the “photosynthetic” bacteria and the “oxygen using” bacteria that were absorbed and now “living” inside the other cell as intricate structures?
6. What is the name of the Theory that explains the development of complex cells (eukaryotic cells)?
7. What is contained by both chloroplasts and mitochondria that is distinct to them?
8. How many membranes do chloroplasts and mitochondria have?
9. Where did the outer membrane come from?
10. What does the endosymbiotic process allow organisms to do?