

Cell Biology Prokaryotes and Eukaryotes

Name:

Period:

For this assignment, you will be comparing the characteristics of prokaryotes and eukaryotes. Fill in the blanks below using information you find on the coloring page of this assignment. Check off each box \square as you finish that part of the instructions.

1. Or	n the coloring page, what are the examples of organisms (k, l, m, n) that have eukaryotic cells?
	olor the words EUKARYOTIC CELL and EUKARYOTES in brown . Color each of the four amples using colors that make them look realistic .
3. Lo	ok at the tiny labeling for the eukaryotic cell. What kind of organism is it from?
4. Lo	ok at the tiny labeling for the prokaryotic cell. What kind of organism is it from?
sta	olor the words PROKARYOTIC CELL and PROKARYOTES in orange . Bacteria are usually ained pink so they can be seen with a microscope, so color each of the three examples in the circles in the .
6. No	ow it is time to start closely examining the similarities and differences between these two types of cells.
Lo	ok down the list of the parts for each of the two cells. They both have 4 label letters in common.
Be	elow, list the diagram's letters for the labels of these parts, as well as the name of the part.
	the letter stands for both and
	the letter stands for
	the letter stands for
	the letter stands for
7. Us	se 4 different colors to color these cell parts, one color for each different part .
8. Dì	NA is found in each of the structures marked "b" on your coloring page. In a eukaryotic cell, the DNA
is	in something called chromatin (b). What organelle (a) is the DNA stored in?
9. In	the prokaryotic cell, the DNA is stored in something that looks like spaghetti (b) in the center of the cell.
W	hat is this part of a prokaryotic cell called?
	What membrane-bound organelle stores DNA in a eukaryotic cell, but is not in any prokaryotic cell? The organelle is the
11. F	or a eukaryotic cell to divide in order to multiply itself, the DNA must divide in half and move to
	opposite sides of the cell during mitosis. What organelle (a) must temporarily break apart so that the DNA