

http://www.wiley.com/legacy/college/boyer/0470003790/animations/cell_structure/cell_structure.htm

Begin with the introduction tab.

1. What is the Nucleoid Region of a prokaryotic cell? What happens in this region?
2. What is the function of the flagella? What is the function of the pilli?
3. What happens in the cytoplasm?
4. What is the function of the cell wall? What is the function of mesosome?

Continue to the Animal Cell.

5. Compare the Rough Endoplasmic Reticulum to the Smooth Endoplasmic Reticulum. What are two ways that they differ?
6. What is the function of the mitochondria?
7. What is the function of the Golgi Apparatus?
8. What is the function of the Nucleus?
9. Describe the function of the Cell Membrane.

Continue to the Plant Cell.

10. What is the function of the vacuole?

11. What is the function of the chloroplast?

12. What is the function of the cell wall?

Now continue to cell construction. Construct each type of cell. Focus on the differences and similarities!

<http://www.sumanasinc.com/webcontent/animations/content/organelles.html>

1. How are mitochondria and chloroplasts similar to prokaryotes (3 ways)?

2. What is the endosymbiont theory?

3. Does aerobic respiration require oxygen? Yes or no?

Complete the fill in the blank activity.