

Animal & Plant Cells

Name _____

Date _____

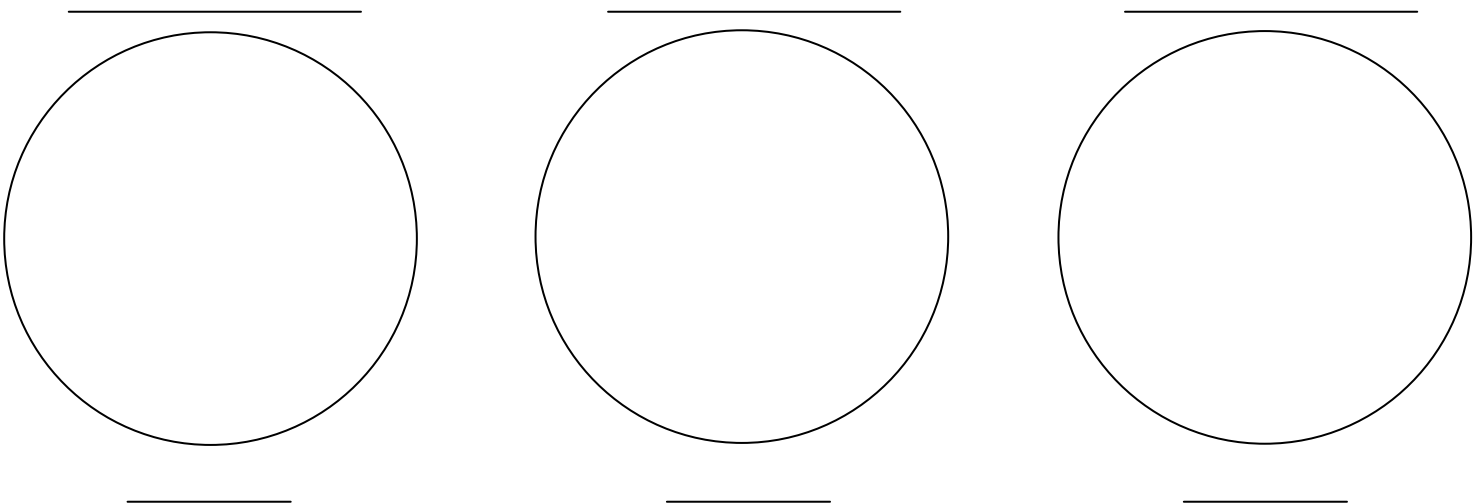
Period _____

Compare a plant cell to an animal cell. What are 4 differences? _____

Cheek Cells

Directions:

1. Add a very small drop of Iodine to the center of a glass slide.
2. With a clean toothpick, gently scrape the inside of your cheek
3. Stir the toothpick in the iodine drop. You won't be able to see anything at this point.
4. Place the cover slip over the top of the drop of iodine.
5. Observe and sketch what you see.
6. Make sure you label the cell membrane, cytoplasm, and nucleus.



Questions about Animal Cells

1. What is the function of the nucleus in the animal cell? _____

2. Why don't animal cells have chloroplasts and cell walls? _____

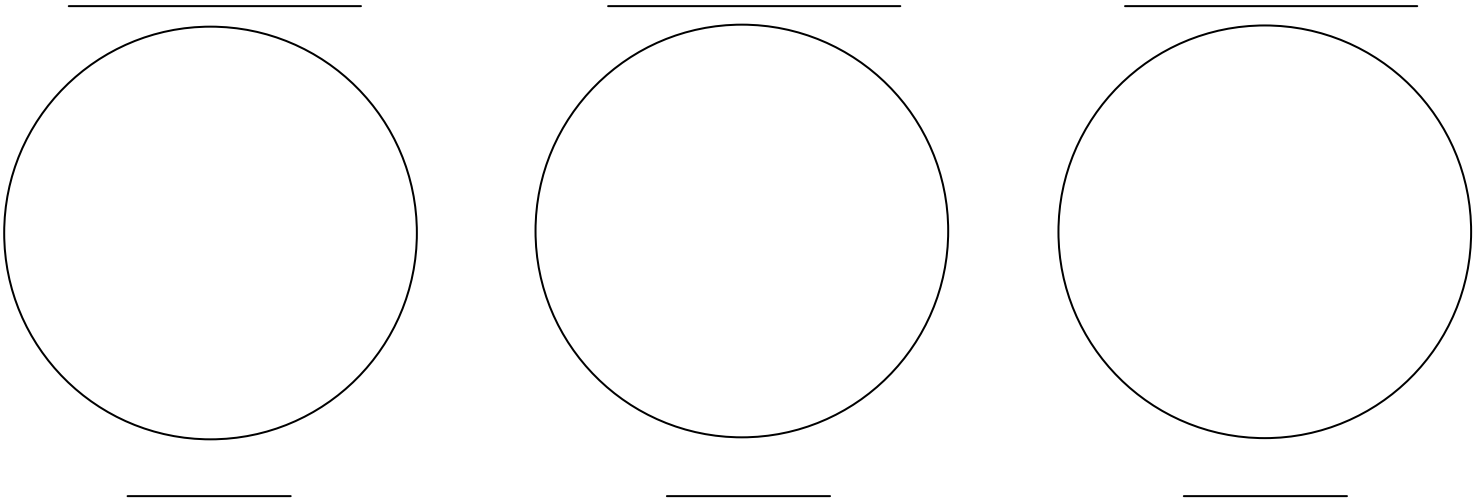
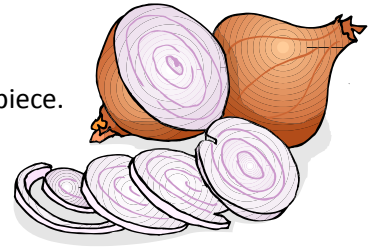
3. What is the function of the Cell Membrane? _____

4. Compare the nucleus of an animal cell to the nucleus of a plant cell? How are they the same and different?

Onion Cells

Directions:

1. Cut a small piece of onion. Peel a thin layer of skin off of the underside of the onion piece.
2. Place the onion skin on the glass slide.
3. Place a drop of iodine on the onion skin.
4. Put the cover slip on top of the onion skin
5. Observe the onion skin under the microscope and sketch it below.



Questions about Plant Cells

1. Which structure that gives a plant cell its support and allows it to grow tall is called the _____.
2. Where is the DNA (genetic material) found in Plant Cells? _____ Where is it found in Animal Cells? _____
3. What are some of the major differences between a cheek cell and an animal cell? _____

4. What does the Mitochondria do in a Plant Cell? _____
What does the Mitochondria do in an Animal Cell? _____
5. Name the organelles that are not found in an animal cell? _____
6. Which organelle makes protein? _____
7. Which organelle transports protein and other materials around the cell. _____
8. Which organelle stores water and other liquids for the plant? _____
9. Where do Cells come from? _____
10. The organelles that are found in both plant cells and animal cells, like the nucleus, mitochondria, and cell membrane, function _____. (Similarly, differently)