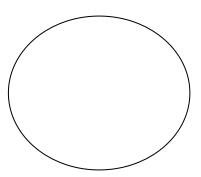
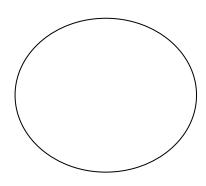
Part 1: Human Epithelial Cells

1. Make a drawing of 2-3 cells as they appear under high power (400x). Label the nucleus, nuclear membrane, cytoplasm and cell membrane.

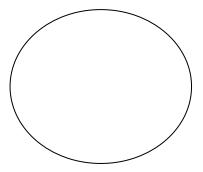


- 2. What is the shape of the cells? _____
- 3. Describe the appearance of the cytoplasm.
- 4. Make a drawing of these cells as you think they would appear in the lining of your mouth.



Part 2: Onion Epidermal Cells

- 1. What is the shape of the cells? _____
- 2. Make a diagram of a single cell. Label only the parts you see.



- What structure do you see that indicates these are plant cells? ___________
- 4. Describe the appearance of the cytoplasm and any motion that you observe. _____
- 5. How many nuclei are present in each cell? _____

6.	What structures do you see in the nucleus? How many are there in each nucleus?
7.	How does the cytoplasm in the stained cell differ in appearance from the cytoplasm in the unstained cell?
8.	Make a drawing of a stained onion cell. Label the structures you see.
Analys	sis and Interpretations
1.	List the structures that human epithelial cells have in common with onion cells?
2.	How do human epithelial cells and onion cells differ?
3.	Some of the epithelial cells are folded or wrinkles. What does this tell you about the thickness of the cells?
4.	What is the advantage of using stain?
5.	How can you tell that an onion cell has depth?