

## Agenda for Wednesday, September 30th 2015

Agenda	Homework
1. Kahoot! 2. Animal Cell Observations (H18)	- Review flash cards - Cell Parts quiz on Friday

### Why are we doing this?

We need to answer important questions about animal cells: how is the shape and arrangement of animal cells related to their function, do all animal cells have the same shapes and parts, how are animal cells specialized for their job? To help us answer these questions, we will observe human cheek cells and nerve cells taken from a pig. You will make drawings of each of these cells and label the parts you are able to observe.

### Today's Procedure

- 1. NOTICE:** Decide in your group who will observe the nerve cells first. There is only one nerve cell slide per table. If you are observing the nerve cell first, go to step 9. If you are observing the cheek cells first, complete the following steps in order.
2. Follow Mr. Ower's instructions for how to make a cheek cell:
  - Obtain cheek cells from your mouth using the flat side of the toothpick.
  - Place a drop of the dyed water onto the slide and stir the toothpick into the liquid. Reseal the bottle immediately.
  - Add a cover slip.
3. Observe the cheek cell at 40X, 100X, and 400X. Make your drawing at 400X, or whichever magnification shows the best detail on your microscope.
4. Label the cell membrane, nucleus, and cytoplasm.
5. Title your drawing "Animal Cheek Cell"
6. Estimate (as best you can) the size of the cell using the small ruler.
7. Check your drawing against the 10 rules of scientific drawings (see handout 9).
8. Clean up your slide with these instructions:
  - Remove the cover slip and throw it in the garbage.
  - Rinse the slide with water at your sink.
  - Completely dry the slide and return it to the blue tray on your table.
  - Wash and dry your hands.
9. Observe the nerve cell at 40X, 100X, and 400X. Make your drawing on 400X. Only draw the large, purple cells; don't worry about the clearer ones around it. See page 73 for a picture.
10. Label the cell membrane, nucleus, and cytoplasm.
11. Title your drawing "Animal Nerve Cell"

12. Estimate (as best you can) the size of the cell using the small ruler.
13. Check your drawing against the 10 rules of scientific drawings (see handout 9).
14. Return the nerve cell slide to the small blue tray on your table. If you haven't already, make your observations for the cheek cell (follow steps 2-8, then 15). If you have observed your cheek cell and completed the drawing, go to step 15.
15. Complete the rest of the handout with your partner(s).

**I finished early, now what?**

1. Review for your cell parts quiz on Friday.
2. Optionally complete any of the lesson extensions Schoology (look in the Extensions Folder). This is a good way to challenge yourself with our current topic.