

## Senses lab. Bio 135

Student Name: \_\_\_\_\_

### Taste and Smell:

1. **Olfactory adaptation:** Take cologne and smell it. Breathe in through the nose and out through the mouth.
  - a. Record how many breaths it takes before you no longer smell the substance (strongly)?
  - b. Try a different substance. Did it diminish faster, slower or the same?
  - c. How many breaths for you partner?

### 2. Taste:

Taste PTC paper to see if you can or cannot taste.

	PTC
You	
Class	
% taste	
% non	
% super	

3. **Vision:**

- a. **Visual Acuity:** Use the Snellen Chart to measure **your** visual acuity .  
Right eye\_\_\_\_\_left eye\_\_\_\_\_
  
- b. **Astigmatism:** Which bands if any look darkest?  
Right eye \_\_\_\_\_left eye\_\_\_\_\_  
Do you have astigmatism? \_\_\_\_\_
  
- c. **Blind spot.** Use a 3x 5 cards with an x and a dot. Have dot on the outside. look at the x and bring the card closer until the dot disappears.
  - i. Move image to see if you can locate you blind spot. Can you?
  
- d. **Accomodation:** How close can you move this page with one eye closed before it gets out of focus?
  - i. Left eye \_\_\_\_\_ Right eye.
  
- e. **Convergence.** With both eyes open, look at a pencil held vertically. Do you see two items in the background? \_\_\_\_\_
  
- f. **Color Blindness:**

Plate 1	
Plate 2	
Plate 3	
Plate 4	
Plate 5	
Plate 6	
Plate 7	
Plate 8	
Plate 9	
Plate 10	

What do these results suggest to you?

4. **Sound localization** Have your partner close their eyes. Have them see if they can locate where you are. Is there a spot where they cannot localize? Where is this spot. \_\_\_\_\_

5. **Sound Conduction test 1.** Strike a tuning fork and place the handle in the middle of your partners head. Does the sound appear louder in one ear or the same. If the sounds appear the same you have equal hearing or hearing loss in both ears.  
Note results: \_\_\_\_\_

6. **Conduction test 2.** Strike tuning fork then place handle on the mastoid process. When your partner can no longer hear the vibration move the tongs of the fork to the ear. Can they hear the vibration now. If they can then their hearing is not impaired. Check both ears and write the results.:

Right \_\_\_\_\_ Left \_\_\_\_\_

7. **Balance**  
Have your partner stand with their feet together, arms at their sides and close their eyes. Have them tell you when they think they are swaying. Measure how long it actually takes them to begin to sway.

How long they thought \_\_\_\_\_  
Actual time \_\_\_\_\_  
Difference \_\_\_\_\_

8. **Body position:**  
(proprioception) Close your eyes, Bring your arm over your head and then attempt to return it to the same spot on the chalk board. Make three attempts. What was the closest? What was the furthest? What is the average. Did you improve or get worse.

	Attempt A	Attempt B	Attempt C	Average
You				
Partner				

**9. Touch sensations:**

Take two point discriminators and measure the distance on a sensitive area such as the hand or face and see how far apart you have to get before a person can distinguish two points. Do the same experiment on a less sensitive area like the back or thigh.

	Distance in sensitive area	Distance in less sensitive
You		
Partner		

**10. Response Time:**

Attempt to catch a ruler. What is the average distance dropped for three tests?

	Time A	Time B	Time C	Average
You				
Partner				

