**Stimulus – Response Time Lab**

**Purpose:**

What is the difference in the response “time” (based on centimeter measurement) for visual, auditory, and tactile stimuli?

**Hypothesis:** If I respond to a \_\_\_\_\_\_\_\_\_ stimulus, then I will respond \_\_\_\_\_\_\_\_ than to other stimuli, because \_\_\_\_\_\_\_\_ allows for the \_\_\_\_\_\_\_\_\_ reaction time.

**Materials:**

1. Meter stick
2. Table
3. Chair
4. Lab sheet

**Procedure:**

1. Select one person to be the person dropping the meter stick and the other person to be the catcher.
2. The catcher should sit in a chair and rest their arm on the table with their hand extending over the edge (you will use your thumb and pointer finger to catch the meter stick).
3. Drop the meter stick without warning (this is the **visual stimulus** – watch and react as soon as it is released).
4. Record in centimeters where the meter stick is caught in the data table below (1 cm should be pointing towards the ground).
5. Repeat this process 5 times.
6. You will do the same process, but this time the catcher will have their eyes closed.
7. The person dropping the meter stick will say NOW (this is the **auditory stimulus** – close eyes and listen for command – react as soon as you hear the command)
8. Record in centimeters where the meter stick is caught in the data table below (1 cm should be pointing towards the ground).
9. Repeat this process 5 times.
10. Again, the same process as above, but this time the catcher will have their eyes closed and the person dropping the meter stick will tap the catcher on their shoulder (this is the **tactile stimulus** – close eyes and wait to feel tap on shoulder – react as soon as you hear the command).
11. Record in centimeters where the meter stick is caught in the data table below (1 cm should be pointing towards the ground).
12. Repeat this process 5 times.

**Data Collection**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Stimulus Type** | **Trial #1** | **Trial #2** | **Trial #3** | **Trial #4** | **Trial #5** | **Trial Average**  |
| Visual  |  |  |  |  |  |  |
| Auditory  |  |  |  |  |  |  |
| Tactile  |  |  |  |  |  |  |

**Data Analysis/Conclusion:**

1. Create a graph (in the space below– neat and colorful) of the average for each stimulus (in centimeters). Make sure to label ALL components of your graph.
2. What can you conclude about the relationship between various stimuli? Write a 5 sentence conclusion, using proper lab format.