

## NERVOUS SYSTEM LAB (RULER DROP)

### I. PURPOSE:

You fill this in.

### II. INDIVIDUAL DATA:

#### A. Eyes open:

Trial	Distance cm.
1	
2	
3	
4	
5	
Average	

#### B. Eyes open Counting Backwards:

#### C. Eyes Closed With Verbal Command:

### III. CLASS DATA

- A. Average for class with eyes open
- B. Average for class with eyes open Counting backwards
- C. Average for class with eyes closed

### IV. DATA ANALYSIS

- A. Graph comparing your average reaction for all three setups to the class' average for all three setups.
- B. Analysis Qs from book p980 1-3

### V. CONCLUSION

- A. Was this a reaction or a reflex? How can you tell?
- B. Draw the pathway of neurons from the sensory to the motor.
- C. How can the information from this experiment help you in other aspects of your life?
- D. Why do you think some people are faster using their sense of hearing vs. sight?

#### Class Data: Eyes open

								Ave
<b>Girl</b>	<b>20.1</b>	<b>9.4</b>	<b>13.4</b>	<b>16</b>	<b>15.5</b>	<b>9.9</b>	<b>14.5</b>	
<b>Boy</b>	<b>10.4</b>	<b>15</b>	<b>15.4</b>	<b>5.4</b>	<b>20.6</b>	<b>13.5</b>		
<b>Boy</b>	<b>16</b>	<b>17.8</b>	<b>11.6</b>	<b>14.2</b>	<b>9.6</b>	<b>20.6</b>	<b>14.6</b>	

#### Class Data: Eyes closed

								Ave
<b>Girl</b>	<b>37.4</b>	<b>15.6</b>	<b>13.4</b>	<b>12.8</b>	<b>18.2</b>	<b>18.5</b>	<b>19</b>	
<b>Boy</b>	<b>26.6</b>	<b>40</b>	<b>60</b>	<b>6.6</b>	<b>36.6</b>	<b>16.6</b>		
<b>Boy</b>	<b>18.9</b>	<b>14.6</b>	<b>14.8</b>	<b>12.4</b>	<b>9.6</b>	<b>15.8</b>	<b>8.8</b>	

#### Class Data: Eyes open counting backward

								Ave
<b>Girl</b>	<b>19.</b>	<b>21.2</b>	<b>13</b>	<b>10.6</b>	<b>33.7</b>	<b>12.2</b>	<b>14</b>	
<b>Boy</b>	<b>74.2</b>	<b>19</b>	<b>18</b>	<b>10.4</b>	<b>16</b>	<b>15.4</b>		
<b>Boy</b>	<b>43.6</b>	<b>18.4</b>	<b>9.8</b>	<b>15</b>	<b>5</b>	<b>19</b>	<b>26.8</b>	