

## Data Collection Handout

Testing Apparatus Procedure:

1. Make sure light probe and LabQuest is turned on
2. Set a timer for 2 minutes
3. Place sample in the testing apparatus
4. Close out ambient light
5. Record initial reading on LabQuest
6. Turn on UV flashlight
7. Start timer
8. After 2 minutes, quickly turn of UV light and write down the first 5 numbers given on the LabQuest
9. Average the 5 numbers to get 1 quantitative measurement of your sample’s phosphorescent glow
10. Subtract the measurement from the initial reading (from step 5) to get a final quantitative measurement.

Quantitative Data Tables:

Sample Name	Control	Sunscreen	Sample 1	Sample 2	Sample 3
<b>Initial Reading</b>					
<b>Data 1</b>	<i>lux</i>				
<b>Data 2</b>					
<b>Data 3</b>					
<b>Data 4</b>					
<b>Data 5</b>					
<b>Average (Add the 5 data points and divide by 5)</b>					
<b>Final Reading (Subtract initial reading from the average)</b>					

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

**\*\*Don't forget measurement notation, the light sensor is reading in lux—the unit of luminance that is equal to one lumen per square meter.\*\***

Qualitative Data Table: Record observations of sample after opening the door and leaving the sample in the testing apparatus

<b>Sample Name</b>	<b>Control</b>	<b>Sunscreen</b>	<b>Sample 1</b>	<b>Sample 2</b>	<b>Sample 3</b>
<b>Qualitative Data</b>					