**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** |
| **Initial**  **Reading** |  |  |  |  |  |
| **Data 1** | *lux* |  |  |  |  |
| **Data 2** |  |  |  |  |  |
| **Data 3** |  |  |  |  |  |
| **Data 4** |  |  |  |  |  |
| **Data 5** |  |  |  |  |  |
| **Average**  **(Add the 5 data points and divide by 5)** |  |  |  |  |  |
| **Final Reading (Subtract initial reading from the average)** |  |  |  |  |  |

**\*\*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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sample**  **Name** | **Control** | **Sunscreen** | **Sample 1** | **Sample 2** | **Sample 3** |
| **Qualitative Data** |  |  |  |  |  |