**Quantitative Data Table Handout**

**Instructions**

1. Turn on the LabQuest and light probe.
2. Set a timer for 2 minutes.
3. Place a testing sample in place in the testing apparatus.
4. Close the door (to shut out ambient light).
5. Turn on the UV flashlight.
6. After 2 minutes, turn off the UV light and quickly record the first 5 numbers from the light probe and LabQuest.
7. Average the 5 readings to get 1 quantitative measurement of the bioplastic’s phosphorescent glow.

**Using the team-created apparatus:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample Name** |  |  |  |  |  |  |  |
| Data 1 | lux |  |  |  |  |  |  |
| Data 2 |  |  |  |  |  |  |  |
| Data 3 |  |  |  |  |  |  |  |
| Data 4 |  |  |  |  |  |  |  |
| Data 5 |  |  |  |  |  |  |  |
| **Average** |  |  |  |  |  |  |  |

**Using the teacher-created apparatus:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample Name** |  |  |  |  |  |  |  |
| Data 1 | lux |  |  |  |  |  |  |
| Data 2 |  |  |  |  |  |  |  |
| Data 3 |  |  |  |  |  |  |  |
| Data 4 |  |  |  |  |  |  |  |
| Data 5 |  |  |  |  |  |  |  |
| **Average** |  |  |  |  |  |  |  |

\*\*Remember the measurement notation: The light sensor unit is **lux**, the SI unit of luminance, equal to 1 lumen per square meter.\*\*