**A Mealworm’s Bright Night** Name:

**Class Question: Will mealworms eat if it’s too bright?**

**The Experiment: Setup**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sun** | **Mon** | **Tues** | **Wed** | **Thurs** | **Fri** | **Sat** |
| **DARK** | Image result for mealworm**START!** | **LIGHT +**  **FOOD** | **X** | **LIGHT +**  **FOOD** | Image result for mealworm**START!** | **DARK** |

**Class Setup:** Circle what the whole class agrees to do for each part of the experiment.

* **Number of Worms:** 1 5 20 100
* **Amount of Time:** 30 seconds 5 minutes 1 Hour

**Group Setup:** Pick your experiment cards. Circle what your group will do for each part of the experiment.

* **Brightness Level:** 1 2 3

Classroom Light One Flashlight Two Flashlights

*Least Bright Most Bright*

* **Food Type:** Dry Oatmeal Apple Cracker

**Prediction:** I think more of the mealworms will travel towards the

FOOD / DARK *(circle one)* because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Results:** How many worms were in each compartment at the end? Use tally marks to count your worms in each box.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sun** | **Mon** | **Tues** | **Wed** | **Thurs** | **Fri** | **Sat** |
| **DARK** | **START!** | **LIGHT +**  **FOOD** | **X** | **LIGHT +**  **FOOD** | **START!** | **DARK** |

1. How many total worms went into the dark? \_\_\_\_\_\_
2. How many total worms went into the light for food? \_\_\_\_\_\_\_\_
3. Our group used brightness level \_\_\_\_\_\_\_\_ which was the LEAST / MIDDLE / MOST bright *(circle one)* and

DRY OATMEAL / APPLE / CRACKER *(circle one)* for food.

1. More worms went towards the DARK / FOOD *(circle one)* because \_\_\_\_\_\_\_\_\_\_\_\_ total worms went into the dark and \_\_\_\_\_\_\_\_\_\_\_\_ total worms went into the light for food.
2. Why do you think your worms acted this way? \_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Once you are done, help your teacher clean up!

**Data Analysis:** SHARE your findings to record on the class data sheet!

A drawing of a face

Description automatically generatedA close up of a device

Description automatically generated

**Independent Conclusion:** *(to be completed after class data analysis)*

1. The group with the **most** mealworms who went into the **dark** used brightness level \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for food.
2. The group with the **most** mealworms who went towards the **light and food** used brightness level \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for food.
3. Overall the class experiments usually showed that MORE / THE SAME / FEWER *(circle one)* mealworms went into the light for food than went into the dark.
4. **Class Question: Will mealworms eat if it’s too bright?**

**If it’s too bright, mealworms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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