**Tip Sheet for CERs on Mealworm Lab**

1. **Where are Molecules Moving**
   1. **Claim**
      * Write one sentence that states where the matter (stuff) starts and where it moves to. Hint: look at the picture in your predictions tool.
   2. **Evidence**
      * Write a sentence that includes the change in mass of potato and mealworms
   3. **Reasoning**
      * Write a sentence that explains how changes in mass of the potato and mealworm prove that molecules are moving.
2. **How are Atoms in molecules being rearranged into different molecules?**
   1. **Claim**
      * Write a sentence that states where the carbon molecules are found before the experiment and what molecules they are found in after the experiment.
   2. **Evidence**
      * Write a sentence that describes the color change of BTB

OR

* + - Write a sentence that describes the amount of carbs, fats, proteins in the potato and the amount of carbs, fats, proteins in the mealworm (nutrition label)
  1. **Reasoning**

**If using BTB as evidence:**

* + - Write a sentence that explains the role of BTB – what molecule does it detect?
    - Write a sentence that explains where the carbon came from in order to create the molecule that BTB detects.

**If using Nutrition Label as evidence:**

* + - Write a sentence that explains which organic molecules were present at the start and which were present at the end
    - Write a sentence explaining which atoms are found in each of those molecules

1. **What is happening to Energy?**
   1. **Claim**
      * Write a sentence that states the form of energy present in the food and the form of energy present at the end.
   2. **Evidence**
      * Write a sentence that identifies the energy content on the nutrition labels in the food and in the mealworms

OR

* + - Write a sentence that identifies the location of the energy before and the type of energy being using for movement
  1. **Reasoning**

**If using nutrition label as evidence:**

* + - Write a sentence that identifies the type of energy observed in this transformation
    - Write a sentence that explains where the energy is stored in organic molecules.

**If using motion as evidence:**

* + - Write a sentence that identifies the two forms of energy observed in this transformation
    - Write a sentence that explains how energy is stored in food and then released for use.