**Lesson 6**

**Optimizing the Formula**



**Activator/Bell Ringer/Starter**

🔔

Record 2 initial observations regarding how this second bioplastic is similar and different from your original bioplastic.

|  |
| --- |
| Similarities: 1.
2.

Differences: 1.
2.
 |

**Lab:** **Evaluating Impact of pH, Temperature**

**and Concentration on Flexibility**

Fill in your data in the box that corresponds to the variable you tested. Add the data from other groups as well.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Flexibility Observations + Data:**  | **Notes to explain possible differences between loops** | **Other traits you notice (color, transparency, texture, structure)** |
| **Lower Concentration Group** |  |  |  |
| **Higher Concentration Group**  |  |  |  |
| **More Acidic pH Group:**  |  |  |  |
| **Less Acidic pH Group :**  |  |  |  |
| **Higher Temperature Group :**  |  |  |  |
| **Lower Temperature Group :**  |  |  |  |

Make a recommendation for optimization for your variable:

Justification #1:

Justification #2:

**Ticket-Out**

🎫

Write an “if / then” statement based on your observations of today's activity.

For example:

If (pH, temperature, etc) is (increased / decreased) then the flexibility of the loop will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.