**Lesson 3**

**Variation: Causes and Analysis**



**Activator/Bell Ringer/Starter**

🔔

Look at the class data and write down two observations.

1.
2.

Additional observations:

1.
2.
3.

**Loop Flexibility Variables**

1. Write down your group’s hypothesis for the main cause or causes of variation between the loops.

Example format: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ seems to make loops more flexible and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ seems to make loops less flexible (more stiff/rigid).

1. Fill in the table below after the class discussion.

|  |  |
| --- | --- |
| Variable | Impact on Loop  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Ticket-Out**

🎫

1. Looking at our list of variables that impact our bioplastic’s flexibility, describe how temperature and solution concentration (the amount of water) might impact each other.
2. Describe how a scientist might keep those two variables from impacting each other..

|  |
| --- |
| 1.
2.
 |