**Sample Data Sheet Decomposition**: Each experimental plate should also have a control plate.

Plate A: List soil type\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Material\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Temperature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Initial Measurements: Control dish mass\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Experimental dish mass\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Material mass\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time Point**  **+ Date** | **Mass of control plate**  **(just plate +soil) in grams** | **Mass Weight Experiment plate**  **(dish + soil + material)** | **Macroscopic Observations**  **(chemical and physical)** | **Microscopic Observations** |
| T0 |  |  |  |  |
| T1 |  |  |  |  |

Plate A: List soil type\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Material\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Temperature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Initial Measurements: Control dish mass\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Experimental dish mass\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Material mass\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time Point**  **+ Date** | **Mass of control plate**  **(just plate +soil) in grams** | **Mass Weight Experiment plate**  **(dish + soil + material)** | **Macroscopic Observations**  **(chemical and physical)** | **Microscopic Observations** |
| T0 |  |  |  |  |
| T1 |  |  |  |  |

1) How do you calculate the change in mass over time using the initial mass values and the change in mass at each time point?

2) What do expect to happen with the values of the control plate? Why do we include this plate?

3) For the experimental plate or the control plate what does a change in mass over time indicate?