

Name _____ Teacher _____ Date _____

3.4GL Observing Plants' Mass Changes, Part 2 Worksheet

Use this worksheet to complete the Observing Plants' Mass Changes investigation and to record your observations, measurements, and class results.

A. Steps in the investigation: *Check the box as you complete each step.*

1. Gather together the following worksheets:
 - a. Pre 0.2GL Plant Growth Investigation Setup and
 - b. 3.2GL Observing Plants Mass Changes, Part 1.
2. Fill in the following data in the data table in Part C on this worksheet using data from your previous worksheets:
 - a. Total solid mass in test tube before (from Pre 0.2)
 - b. Total solid mass added to test tube during watering (from Pre 0.2)
 - c. Wet masses in test tube after (from 3.2)
 - d. Estimated dry mass of gel (from 3.2)
3. Place an empty container on the digital scale and tare the scale.
4. Mass the dried plant. Record the solid plant mass on your data table in Part C. You can compare the measured dry mass to the estimate you made in 3.2.

B. Observations during the investigation: *Record your macroscopic-scale observations below. Use drawings and/or words.*

C. Measurements during the investigation: Record your measurements in the table. If the mass is less than 0.01g, record it as $\leq 0.01g$. For our purposes, we will treat this as a zero when doing any calculations with it.

<i>Inputs</i>	<i>Outputs</i>
	Wet masses in test tube after
	Wet mass of plant: _____ g
	Wet mass of gel: _____ g
Total solid mass in test tube before (use number from Part B in Pre-Lesson Activity 0.2GL Plant Growth Investigation Setup Worksheet)	Total solid masses in test tube after
Dry mass of radish seed: _____ g	Dry mass of plant: _____ g
Dry mass of gel: _____ g	Dry mass of gel: _____ g
Total solid mass added to test tube during watering (add the total in the last column from Part C in Pre-Lesson Activity 0.2GL Plant Growth Investigation Setup Worksheet)	
Mass: _____ g	

D. Results for the whole class: Make notes about how the observations and measurements of other groups compared to yours. Describe patterns in your class data.

1. Changes in dry mass of the plants:

2. Changes in dry mass of the gel:
