

3.2: Observing Bread Molding Worksheet

Use this worksheet to complete the bread mold investigation and to record your observations, measurements, and class results.

A. (Day 1) Find the Mass of Your Bread and Mold.

- Collect your labeled Petri dish with bread and mold, a digital balance, and your worksheet from the Pre-Lesson.
- Look on your worksheet from your Pre-Lesson and find the beginning mass of your Petri dish and bread from 7 days ago. Write the mass on your [3.2 Observing Bread Molding Worksheet](#) in the table where it says “**Mass of Petri dish and bread and mold before (7 days ago).**”
- Turn on your digital scale until it reads 0.00g. Place the entire Petri dish with the lid onto the scale. Record the final mass of your Petri dish where it says “**End Mass (after 7 days)**” in the table below. Note: DO NOT open the lid—classmates may have allergies to bread mold.
- Record the final mass of your Petri dish, bread, and mold on your [3.2 Observing Bread Molding Worksheet](#) in the table where it says “**Mass of Petri dish and bread and mold after (today).**”

B. (Day 1) Set up the BTB Investigation.

- Gather a large, sealable container (1 per group).
- Stack all four of your group’s Petri dishes in the container. 3
- Put an open Petri dish with BTB in it next to the moldy bread inside the container.
- Record the color of the BTB on your [3.2 Observing Bread Molding Worksheet](#) in the table where it says “**Color of BTB before.**”
- Seal the container and wait 24 hours for results.

C. (Day 2) Find results of your BTB Investigation.

- After 24 hours, return to your sealed container with the Petri dishes with moldy bread and BTB. Open the container and immediately record the color of the BTB in the table on the next page. You may wish to compare it to the color of fresh BTB in a Petri dish, with both placed on a piece of white paper.
- After you’ve recorded the color of the BTB, throw away the Petri dishes and moldy bread.

D. Measurements during the investigation

<i>Measurements Before</i>	<i>Measurements After</i>
Mass of Petri dish with bread and mold before (7 Days Ago) Date: _____ Mass: _____ g	Mass of Petri dish with bread and mold after (Today) Date: _____ Mass: _____ g Change in mass: _____ g
Color of BTB before (Today) Date: _____ Color of BTB: _____	Color of BTB after 24 hours Date: _____ Color of BTB: _____ Change in color: _____

E. 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 mass of the bread and mold:

2. Changes in color of BTB:
