



HOMESCHOOL SCIENCE LAB SHEET

OBSERVING THE GROWTH OF MOLD SPORES UNDER DIFFERENT CONDITIONS



In this experiment, you will grow mold on bread under different conditions and observe how the environment affects mold growth.

Name: _____

Date: _____

Experiment Start Date: _____

Experiment End Date: _____



OBJECTIVE

To observe and compare the growth of mold spores on bread under different conditions of temperature, moisture, and light.



MATERIALS

- 4 slices of bread
- 4 resealable plastic bags
- Permanent marker
- Spray bottle with water
- Refrigerator (cold place)
- Warm place (room temperature or warm area)
- Dark place (e.g., inside a cabinet or box)
- Magnifying glass (optional)



PROCEDURE

1. Label each plastic bag with a condition:
 - Bag 1: Warm & Moist
 - Bag 2: Warm & Dry
 - Bag 3: Cold (Refrigerator)
 - Bag 4: Dark & Moist
2. Place one slice of bread in each bag.
3. For Bag 1 (Warm & Moist): Lightly spray the bread with water.
4. For Bag 2 (Warm & Dry): Do not add water.
5. For Bag 3 (Cold): Place the bag in the refrigerator.
6. For Bag 4 (Dark & Moist): Lightly spray the bread with water and place the bag in a dark place.
7. Seal all bags.
8. Observe the bread daily for 7–10 days.
9. Record your observations in the table below.



OBSERVATIONS Check and record your observations each day.

Day	Bag 1 Warm & Moist	Bag 2 Warm & Dry	Bag 3 Cold (Refrigerator)	Bag 4 Dark & Moist
Day 1	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____
Day 2	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____
Day 3	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____
Day 4	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____
Day 5	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____
Day 7	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____
Day 10	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____	Growth: _____ Color: _____



ANALYSIS QUESTIONS

1. Which condition showed the most mold growth? Why do you think that happened? _____
2. Which condition showed the least mold growth? Why do you think that happened? _____
3. How did moisture, temperature, and light affect mold growth? _____
4. What did you learn from this experiment? _____

DRAW YOUR RESULTS

Draw the mold growth you observed in each bag on Day 10.

Bag 1 Warm & Moist	Bag 2 Warm & Dry
Bag 3 Cold (Refrigerator)	Bag 4 Dark & Moist



SAFETY FIRST! Do not open the bags during the experiment. Wash your hands after handling the bags.