

Day 1: December 20, 2025

We brainstormed some ideas. These are some of them.

BRAINSTORM

- How to see small bacteria
- Germs
- Plant growth
- Building a car

Day 2: December 21, 2025

We figured out our topic and brainstormed some different questions.

QUESTIONS

- Which lighting condition is best for keeping bread out?
- Which lighting condition helps keep bread fresher for longer?
- Which lighting condition makes mold grow faster on bread?
- Under which light conditions does mold grow faster on bread?
- Which lighting condition speeds up/increases mold growth on bread?
- Which lighting condition is ideal for keeping bread out at room temperature?

Day 3: December 23, 2025

We researched more about our topic and finished our hypothesis, variables, materials. We chose this topic because many people leave their bread out so this experiment can show in which lighting condition to store it. We also started our presentation.

HYPOTHESIS

We think that darkness is the best lightning condition for keeping bread out and that normal sunlight and darkness from the night is not as good for keeping bread out

VARIABLES

Responding Variable: Which lighting condition is best for keeping bread out

Controlled Variables: The amount of time the bread is under that lighting condition, the type of bread, the temperature,

Manipulated Variable: The lighting condition

MATERIALS

- Bread
- Plastic container/ sandwich bag
- Lamp
- Box

Day 4: December 26, 2025

We worked more on our presentation.

Day 5: December 27, 2025

We did some research for our presentation. We researched why some people leave their bread out and not in the refrigerator.

Day 6: December 29, 2025

We researched mold. We researched where it lives, what it is and how it grows.

Day 7: January 2

We planned out our project and made our steps.

METHODS

- 1. Put on gloves**
- 2. Put on gloves**
- 3. Put the pieces of bread in the clean ziploc bags**
- 4. Put one of the bags of bread in a box so it stays dark**
- 5. Put one bag of bread in a dark room with a lamp on it**
- 6. Put one bag of bread beside a window so it gets sunlight and darkness**
- 7.**

Day 8: January 11

We started/did the experiment. Now we will wait 3 weeks. We will check on the bread everyday.

Day 9: January 12

There have been no signs of staling or mold yet on any of the breads.

Day 10: January 13

The bread is still doing fine, we will check again tomorrow.

Day 11: January 14

Still no signs of mold or staleness.

Day 12: January 15

The breads are still doing fine

Day 13: January 16

The breads are doing fine but some of the breads look like the air is gone.

Day 14: January 17

Amir's bread that gets both sunlight and darkness started to become soft in the middle.

Day 15: January 18

Amir's bread that gets both sunlight and darkness started to change colors a little bit in the middle. Jibril's breads are still doing fine.

Day 16: January 19

Jibril's breads are fine, but Amir's bread that gets both sunlight and darkness is starting to turn different colors more.

Day 17: January 20

Amir's bread that gets both sunlight and darkness looks the same as yesterday. All of his other breads are fine. Jibril's breads have not started to mold but the air left them

And amir's bread that next to the window the crust of the bread is revealing more its softer

Day 18: January 21

The breads are the same as yesterday

Day 19: January 22

Jibril's bread that gets both sunlight and darkness crust is starting to fall off, and same thing with Amir's. The other breads are doing fine.

Day 20: January 23

The breads are the same as yesterday

Day 21: January 24

The breads still look the same but the ones that get sunlight and darkness are getting harder.

Day 22: January 25

The breads look like the same as yesterday.

Day 23: January

Day 24: January 26

We looked over our slides and we added some of our sources of error. The breads are the same as yesterday.

Day 25: January 27

The breads are looking more dry. The ones that get sunlight and darkness are very thin and Amir's is changing color everyday. We also fixed some of our spelling mistakes in our slides.

Day 26: January 28

Jibril's bread that gets sunlight and darkness looks kind of greyish. The rest of the breads are the same as yesterday

Day 27; January 29

The breads are still the same as yesterday

Day 28: January 30

The crust on my bread that gets sunlight and darkness fell off more. Amir's one has brown spots. The rest of the bread is the same.

Day 29: January 31

The bread is the same as yesterday. We went to each other's houses and practiced our slides.

Day 30: February 1

We printed out everything and added them to our trifold. We also practiced. Our experiment also ended today