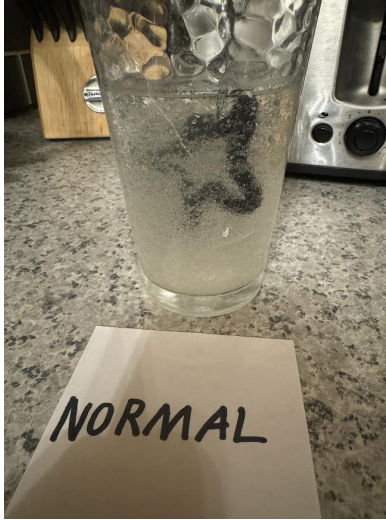
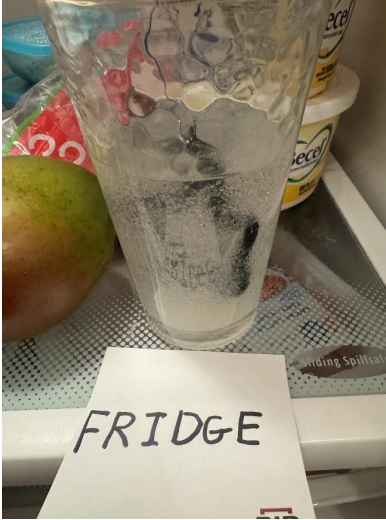
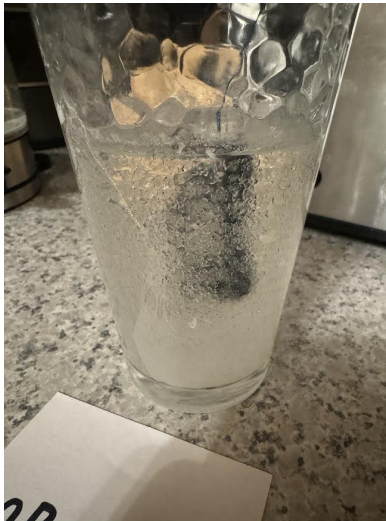
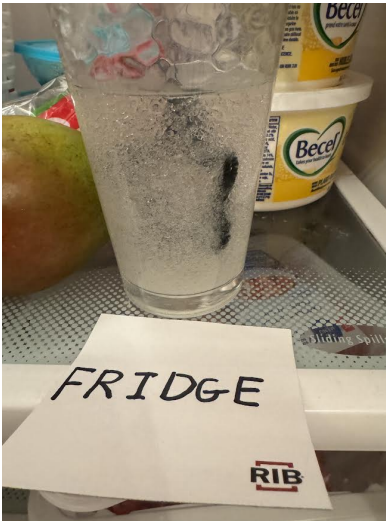
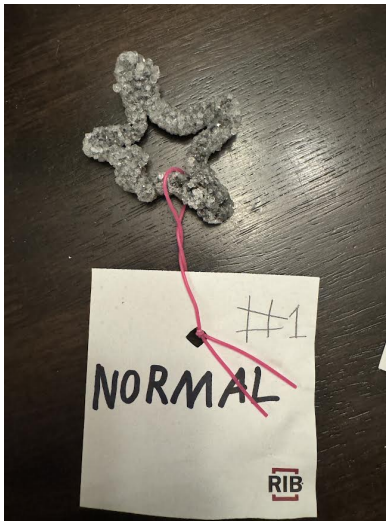



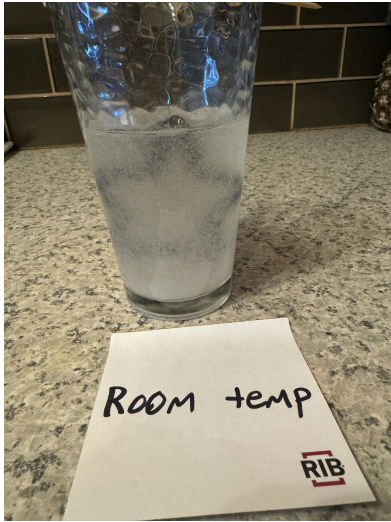

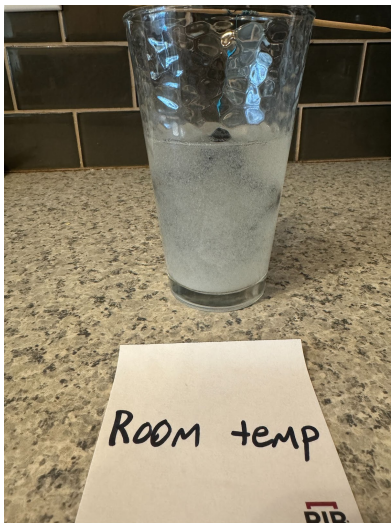
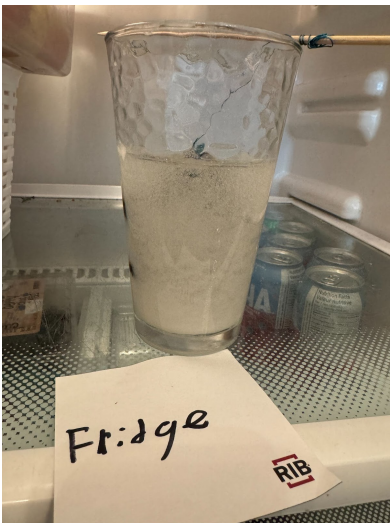

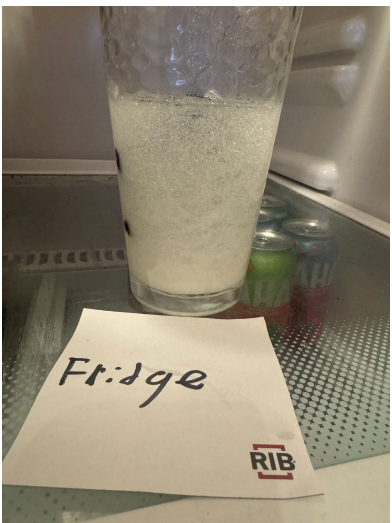
Test:1

Date: December 27, 2023

Hours	Room temp crystal	Fridge crystal
1 hour	 <p>A glass of water with a small, dark, irregular crystal at the bottom. A white label with the word "NORMAL" is placed in front of the glass.</p>	 <p>A glass of water with a small, dark, irregular crystal at the bottom. A white label with the word "FRIDGE" is placed in front of the glass.</p>
3 hours	 <p>A glass of water with a small, dark, irregular crystal at the bottom. A white label with the number "20" is placed in front of the glass.</p>	 <p>A glass of water with a small, dark, irregular crystal at the bottom. A white label with the word "FRIDGE" is placed in front of the glass.</p>
Final result/24 hours Fridge grams: 19 Room Temp grams: 16	 <p>A star-shaped crystal on a pink string. A white label with "#1" and "NORMAL" is attached to the string. The RIB logo is visible in the bottom right corner.</p>	 <p>A star-shaped crystal on a yellow string. A white label with "#1" and "FRIDGE" is attached to the string. The RIB logo is visible in the bottom right corner.</p>

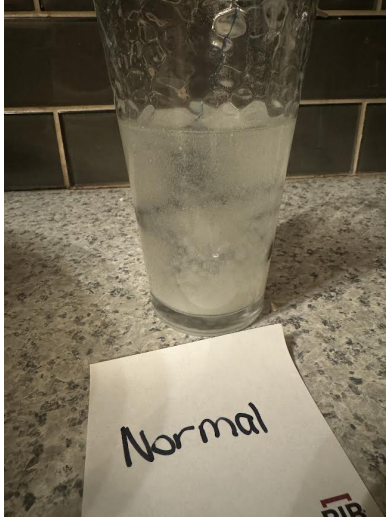
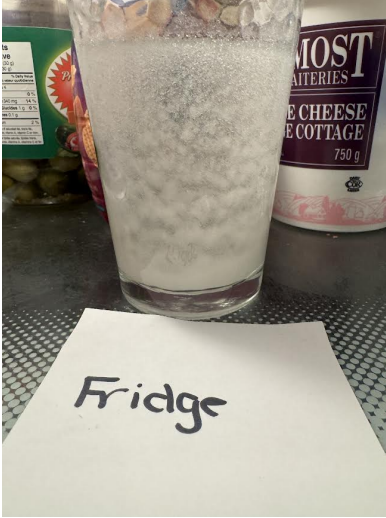
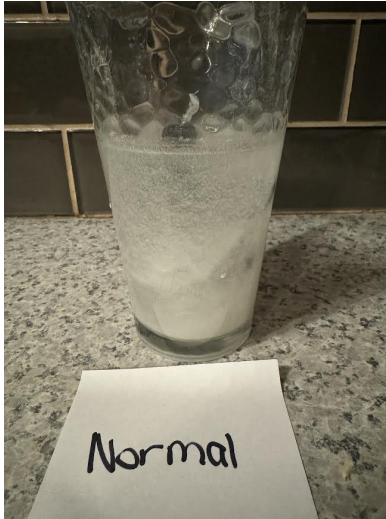
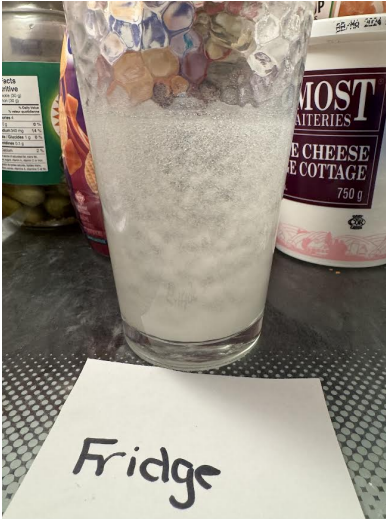
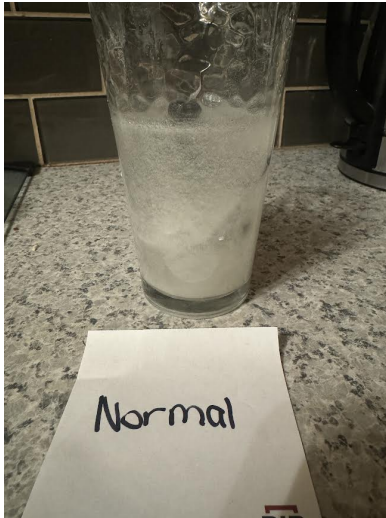
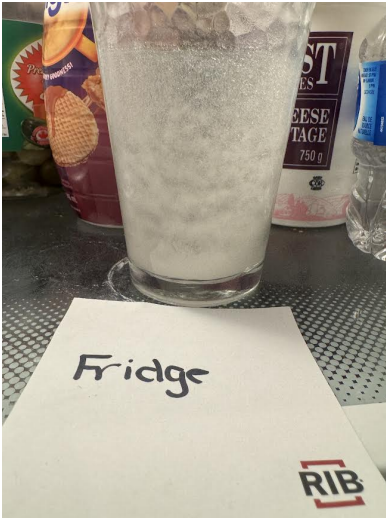
Test:2

Date:January 3, 2024

Hours	Room temp crystal	Fridge crystal
1 hour		
3 hours		
Final result/24 hours Fridge grams: 18 Room Temp grams: 19		

Test:3

Date: January 21, 2024

Hours	Room temp crystal	Fridge crystal
1 hour	 A glass of water with a white precipitate at the bottom. A white card with the word "Normal" is placed in front of the glass.	 A glass of water with a white precipitate at the bottom. A white card with the word "Fridge" is placed in front of the glass.
3 hours	 A glass of water with a white precipitate at the bottom. A white card with the word "Normal" is placed in front of the glass.	 A glass of water with a white precipitate at the bottom. A white card with the word "Fridge" is placed in front of the glass.
Final result/24 hours Fridge grams:20 Room Temp grams:19	 A glass of water with a white precipitate at the bottom. A white card with the word "Normal" is placed in front of the glass.	 A glass of water with a white precipitate at the bottom. A white card with the word "Fridge" is placed in front of the glass.

## Dates we met

November 17, 2023

November 19, 2023

January 4, 2024

January 21, 2024

January 27, 2024

Enzo and I found when you add lots of borax you get little crystals. When we did the black crystal one we added 10 TBSP and got small and lots of crystals. When we added 6 TBSP we got big crystals but not alot.

Physical observation:

- The crystals are pretty hard
- The crystals are layered
- They are a little bit foggy
- They're shaped in cubes when you look closely

## Fridge/room temp observations

Preparing solutions

-took 10 mins for borax to completely dissolve in water on medium heat.

1 hr observation

More crystals on the surface of the solution on the fridge test. Some amount on the sides of the glass.

3 hr observation

Crystals forming on pipe cleaner, looks like more coating on fridge tests.

10 hr observation

Looks like more crystals are on the pipe cleaner. Not many other changes.

# Hypothesis

We thought that if we make the crystals with the same amounts and the same thread and the same pipe cleaner we thought that the crystals would grow smaller. We learned that if you grow the crystals in cold temperatures the crystals will grow heavier and larger.

# Problems

After doing this experiment we noticed that you need to use really hot water and lot's of borax to make the best crystals. If the water was too cold or we didn't use enough borax we would not get good crystals. When selecting a glass for the solutions, we realized you need to use a glass large enough to fit the pipe cleaner without touching the sides. If your pipe cleaner was too big, the crystals growing on the pipe cleaner would also attach to the side of the glass and it was hard to remove the crystal when it was made.

## Videos/websites

<https://www.instructables.com/How-to-Grow-Borax-Crystals/>

<https://www.webmd.com/a-to-z-guides/borax-sodium-tetraborate>

<https://www.youtube.com/watch?v=BHRFBKjqEvg>

<https://en.wikipedia.org/wiki/Borax>

<https://www.thoughtco.com/what-is-borax-where-to-get-608509>

