

Use this journal to write down what you do each day when you work with your project. You can include drawings, pictures, qualitative data (descriptions of plant's color, whether it looks healthy or not) and quantitative data (things you can count - number of seeds that sprouted in each pot, how tall the plants are...) Also record any errors or problems that occur.

## Planting Science Journal

10/08/2021

Quinn planted and watered all of the plants because everyone else in the group was absent. Nothing has started to happen yet because the plants were just planted and there was no salt added to the water we used.

10/13/2021

Have all started to grow except for one pot that hasn't had any growth yet. We went on a call with our mentor. We must measure every day, compare the health of salt-water plants to control plants, chart the highest point of the plant for each cup, and measure the roots of the plants at the end of October.

10/14/2021

All of the plants were measured and watered with salt water for the first time today. Some of the plants are very tall and others haven't started to grow yet like the ones in the one pot that doesn't have any growth. We have five seeds in each pot with soil.

10/15/2021

Today we measured and watered all of the plants. The plants are looking healthy and all have a nice, bright green color. The bottom of the plants is a slightly different color than the top because they are lighter. We will be watering the plants every Monday, Wednesday, and Friday. The plants are being watered with 25ml of water every time we water them with different salt concentrations. I noticed how some of the saltwater plants have a tiny bit of yellow. The .8 salt concentration is growing the best at the moment and is getting a bit of brown coloring. Two of the controls are doing well and the leaves look really healthy on all of our plants at the moment.

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Control 1	11	14	17	7	9	11.6
Control 2	9	12	9.5	9.5	0	8
Control 3	0	0	0	0	0	0
.8 Salt Concentration	8	11	12	11	10.5	10.5
.8 Salt Concentration	4	12	8	10	11.25	9.05
.8 Salt Concentration	5	9.5	10	11	14.5	10
.4 Salt Concentration	4	9	7.25	8.5	10.75	7.9
.4 Salt Concentration	9	8.25	10.25	8	0	8.875
.4 Salt Concentration	9.5	11	15	7.75	0	10.8125
.1 Salt Concentration	7.25	11.5	10.5	12	6.75	9.6
.1 Salt Concentration	11.5	10.5	10.5	12	0	11.125
.1 Salt Concentration	10.25	7.25	12.75	12	10.75	10.6

10/18/21

All of our pots now have plants growing. Most of the plants look healthy and have a bright green color but there are a couple of them that appear to be a light yellow or white throughout the plant. Most of the plants are more than one color and aren't as dark of a green as they used to be. The controls all look healthy and .1 salt concentration is doing the worst at the moment.



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22.4
18.4
3.2
15.2
47.6
51.4
12.4
11
13.5
17.5
12.6
17.8

10/19/21



24.12
18.66
4.94
14.7
15.9
14.1
13
12.8
13.4
21.8
16.9
23.7

We measured today and we noticed that some of the plants being watered with salt have stems that are turning slightly brown. The controls and the .8 concentration and both green though.

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10/20/21

The stems were red today and the plants are leaning over. Hopefully more growth happens soon. Some of the plants have too much water so we are probably going to only water on Wednesdays now. The .8 is doing okay but it is starting to slow down with its growth. Today we did not measure our plants.

10/21/21

Things have pretty much stayed the same. I haven't noticed many changes since yesterday in our plants. The plants are leaning a bit more and seem droopy, but that could be because they have too much water. We are going to only water our corn plants on Wednesday now because they are too wet. Our plants need more support so we might start using a new method to fix that problem.

10/22/21

After not measuring for a while and the plants not being touched they are starting to look a bit healthier and they aren't leaning as much. The stems are still red and the ones with the larger salt concentrations are thicker. In some of the pots, we are using pipe cleaners to help the plants stop leaning against each other. The tips on some of the plants are starting to turn brown and die. Some of the plants have a darker shade of green while others are a little yellow. The .8 salt concentration seems to be the healthiest at the moment.

10/25/21

Today the plants looked terrible. All of the plants are wilting and all shriveled up. We are now moving the plants near a grow light so they have a new light source and hopefully that helps the plants and makes them a bit healthier. The tips of all the plants are brown and yellow. The .8 salt concentration is doing way worse than it usually does.

25.9
24.4
17
10.6
10.3
12.3
17.1
15.16
12.6
22.7
21.9
22.4

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10/26/21

16.8
24.3
24.8
13.9
10.7
11.8
15.3
8.2
15.2
21.2
23.4
25.6

We watered all of our plants today and most of them are dead. Two plant stems fell off somehow. The plants have a lot of discoloration and are very brown now. Some of the plants were very dry but the .8 salt concentration wasn't dry before we watered them.

10/28/21

One of the plants fell out of the .1 salt concentration today. In one of the .4 salt concentration pots, there are no plants left that haven't fallen out and rotted. When we examined the plants we saw mold on one of them which could have been because we overwatered the plants at the beginning of our experiment. The control pots are doing the best overall, but they are still not doing very well. In one of the .4 pots, it seemed to be doing better than it usually does and doesn't seem as shriveled as the other plants. There is more green color on the controls than on the rest of the plants and the controls are the tallest. The tips on all of our plants are fully brown and shriveled up.

10/29/21

In every single pot, our plants are falling out and they are all dead. The .1 salt concentration pots seem very moldy, but they are not the only pots with mold. Every pot might have mold in it now. The .1 salt concentration seems to be doing the worst because all of those plants are browner and less healthy than the rest. The control plants are the healthiest but they still aren't doing very well. Today was our last day for measuring our plants. The .4 salt concentration is doing the second-best out of all our plants. From our experiment, I can conclude that corn can grow in saltwater, but not as well as it will in saltless water.

23.6
24.4
18.3
9.8
12.7
15.5
19.8
18.7
0
18.2
22.2
24