

Emmie
 Crazy Coconuts

*Make sure you date every entry. Explain in detail what your group did. Record qualitative (physical descriptions/ adjectives) and quantitative (# of plants, heights, - things that can be counted) observations.

Talk to your mentors to see if you should record individual plant growth (how will you tell which plant is which?) or if it is acceptable to measure all of them and record average plant growth. I've set up a sample data table below for you to enter data into.

3/27/2017

Data Table

Date	Temperature of Cold plants	Temperature of control plants	Temperature of warm plants	Measurements of the plants
3-27-17	21.1 degrees Celsius	21.9 degrees Celsius	21.9 degrees Celsius	0 cm
3-28-17	19.2 degrees celsius	23.9 degrees celsius	21.4 degrees celsius	0 cm
3-29-17	8.6 degrees celsius	24.7 degrees celsius	21.3 degrees celsius	0 cm
3-30-17	9.9 degrees celsius	33.6 degrees celsius	21.3 degrees celsius	Controlled- average is 1.4 cm Warm- average is 3.8cm 14 plants sprouted
3-31-17	16.2 degrees celsius	30.6 degrees celsius	22.2 degrees celsius	Warm- 4.5cm Controlled / Normal- 3.3cm We have 15 plants sprouted
4-3-17	20.8 degrees C	32.4 degrees C	20.8 degrees C	About the same. Warm- 8.1 cm Control- 8 cm Cold- 1.7 cm
4-4-17	14.4 degrees C	31.3 degrees C	21.1 degrees C	Warm:8.7 cm Cold:2 cm

				Control: 8.5 cm
4-5-17	17.2	33.0	21.4	Warm: 9.3 cm Cold: 4 cm Control: 10cm
4-6-17	17.3	23.3	20.6	Warm- 10 cm Cold- 5 cm Control- 10.6 cm
4-7-17	19.2 degrees celsius	30.1 degrees celsius	22.2 degrees celsius	Warm- average is 10.1 cm Cold- average is 7 cm Normal/ controlled- average is 10.5 cm

4/10/17	22.1 degrees celsius	29.1 degrees celsius	22.5 degrees celsius	Warm- average is 11 cm Cold- average is 8.5 cm Normal/ controlled- average is 11.2 cm
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4/12/17	23.3 degrees celsius	30.9 degrees celsius	26.1 degrees celsius	Warm- average is 13.9 cm Cold- average is 8.5 cm Normal/ controlled- average is 11.6 cm
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4-14-17	10.1 Degrees Celsius	23.1 Degrees Celsius	29 Degrees Celsius	Warm- 12.3 Cold- 10 Control- 11.7
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3-27-17

Today we planted our radish seeds. We have 4 cups in each climate, and 2 seeds per cup. The soil was not watered today.

3-28-17

Today we took the temperature of the soil. The colder one was 19.2 degrees celsius, the controlled one was 21 degrees celsius and the warm one was 25 degrees celsius. We got more snow for the cold one, and put everything back. We watered the plants with 25 ml of water. No sprouts yet.

3-29-17

Today we got more snow for the plants, took their temperatures, and put the lights for the warm plants in a different. The temps were 8.6 degrees celsius was the cooler one, 21 degrees celsius was the controlled one, and 24.7 degrees celsius is the warm one. We don't have any sprouts yet.

3-30-17

Today we finally have sprouts! We have them in the warm bin and the control bin. The temps today were 9.9, 21.3, and 33.6 degrees celsius. We also replaced the snow with ice packs. The sprouts in the control bin are 1.4cm, and the sprouts in the warm bin are 1.5 inches. We also watered the soil today with 35 mL.

3-31-17

Today we have 15 sprouted plants. We still don't have sprouts in the cold bin. The temperatures today were 30.6 (warm), 22.2 (Control), and 16.2 degrees celsius in the cold bin. We watered the plants and got new ice packs. We also rotated the cups in the warm bin like Steven said to. The plants are a light greenish color.

4-3-17

Today temps:

Cold-20.8

Control-20.8

Hot- 32.8

We replaced ice packs with snow because it wasn't cold enough. We also watered the plants with 25 mL of water. They are a light green color. We have 1 sprout today in the cold bin.

4-4-17

Today we measured, got temps, watered, and got a new ice pack.

4-5-17

Today we measured, got temps, watered, and got snow. The plants are light green. The temps are 21.4 (control), 17.2 (cold), and 33.0 for warm.

4-6-17

Today the temperatures were closer than usual. Control- 20.6 degrees Celsius Warm- 23.3 degrees Celsius. Cold- 17.3 degrees Celsius. It may be due to the fact that the light bulb for the warm bin went out, but it was replaced. We got more snow for the cold bin also.

4-7-17

Today we did the usual. The temps were:

19.2 degrees celsius (Cold)	30.1 degrees celsius (Warm)	22.2 degrees celsius (Control)	Warm- average is 10.1 cm Cold- average is 7 cm Normal/ controlled- average is 10.5 cm
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And we also got new snow. We believe that most of the sprouts in the cold bin died :(.

4-10-17

Today we measured and took temperatures. We also replaced the ice packs, the temperature is warmer in the cold bin due to the ice pack melting over weekend.

Soil temperatures:

Cool soil- 22.1 degrees celsius

Normal/ controlled- 22.5 degrees celsius

Warm soil- 29.2 degrees celsius

4-12-17

Today we did the normal stuff. We measured, watered, and got the temps.

Soil temperatures:

Cool soil- 23.3 degrees celsius

Normal/ controlled- 26.1 degrees celsius

Warm soil- 30.9 degrees celsius

The reason the plants were a little warmer was because the ice packs melted, and it was very warm out the past 2 days.

4-14-17 *

Today we did the normal stuff. We measured, watered, and got the temps.

Soil temperatures:

Cool soil- 10.1 degrees celsius

Normal/ controlled- 23.1degrees celsius

Warm soil- 29 degrees celsius

The plants are a white green color. Most of them are dieing. We are leaving the same ice packs over the weekend because they are still very cold.

4-17-17

Today we watered, measured, and got temperatures.

Soil Temps:

Warm: 32.9

Cold: 24.2

Control: 26.7

Most of the plants look dead. The stems are white and the leaves are green.