

9/19/18

10:10 am

The mung bean was pretty easy to cut in half, and when I looked at it under a microscope, I could see the root running through the middle of it. When I tried to cut the corn in half, I had a much more difficult time. When I looked at it under the microscope, I saw a bunch of dots randomly spread around the seed. (Pictures of seeds below).

Predictions:

- I predict that the roots are going to be the first part of the plant to show and that they are going to sprout out of both the corn and the Mung bean and then keep growing longer and longer.
- I predict that that Mung Bean plant is going to have 2-6 leaves and the corn will have 5-10 leaves.
- I predict that the two plants will be pretty similar in size for the first little bit and then the corn will grow bigger later on in the process.
- I predict that the Mung Bean plant will grow faster.

Water Used:

Filtered store bought water.

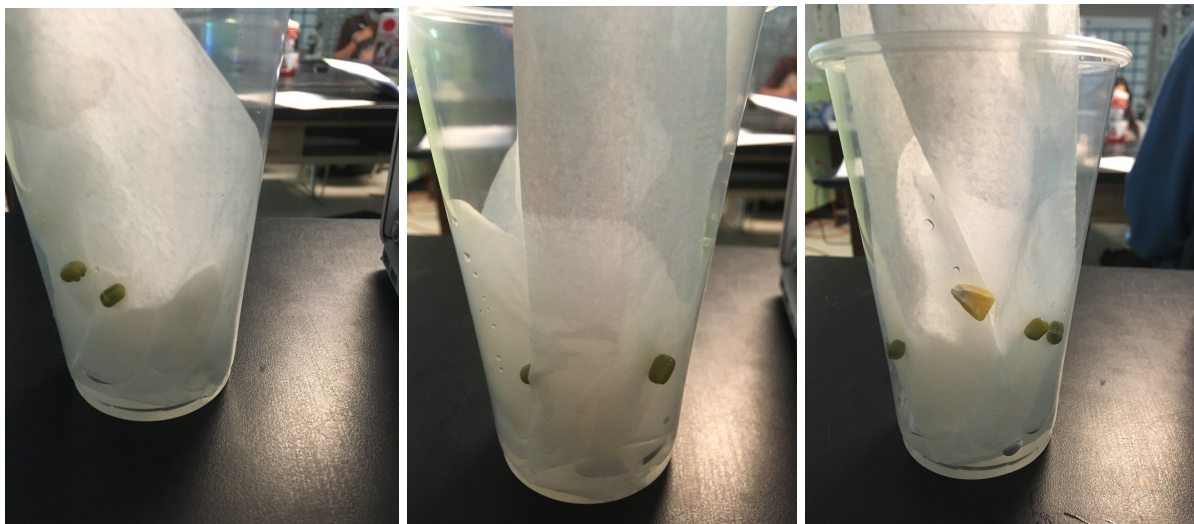
Amount of water used:

40 ml

Placement of dixie cup with seeds:

2 ft away from windowsill

(Pictures of seeds on first day)



9/20/18

10:58 am

The 4 mung beans that I have in my cup have all started to shed their coat and grow their cotyledon. From what I can see, the corn hasn't changed. So far, the only part of the Mung Bean plant that has appeared is the cotyledon.

Mung Bean cotyledon measurements:

- 0.5 cm
- 0.2 cm
- 0.4 cm
- 0.7 cm

Corn cotyledon measurement:

- 0 cm

Prediction:

- I predict that the Mung Bean will still grow faster than the corn.

Water Used:

Filtered store bought water.

Amount of water used:

40 ml

Placement of dixie cup with seeds:

2 ft away from windowsill

(Pictures of seeds on second day)



9/24/18

10:55am

All 5 of my plants grew a lot over the weekend. All 4 of my Mung Beans grew longer cotyledons. They also started to grow leaves. 3 out of the 4 beans have come out of the coat. My corn has sprouted a very long cotyledon as well as the start to its stem. I noticed that all a couple of the plants grew towards where the water stays in the bottom of the cup. With what I can see at this stage in the growing process, a Mung Bean is a dicot and corn is a monocot. The bean split into two parts which means there is the possibility for it to grow two cotyledon which puts it into the dicot category. Opposite from the Mung bean, the corn is only able to grow one cotyledon which categorizes it as a monocot.

Mung Bean cotyledon measurements:

- 4 cm
- 5.5 cm
- 1.5 cm
- 4 cm

Corn cotyledon measurement:

- 6 cm

Corn stem:

- 1 cm

Water Used:

Filtered store bought water.

Amount of water used:

40 ml

(I was not able to record data about plant from 9/21/18 - 9/23/18)

