# Death By Acid

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### Background

I decided to do this project because plants are very important in our society and I wanted to make sure that we are providing the best atmosphere for them that we can.

I wanted to see how the acidity of an environment affected the acidity of the water.

### Variables

- ▶ Independent Variable (IV) types of water (Fiji, Well, Creek, Tap)
- Dependent Variable (DV) Philodendron plant growth
- Constant Variable (CV) amount of water, amount of sunlight, amount of air, type of plant, type of container, same temperature

### Problem

### Hypothesis

How will different levels of pH affect plant growth? I believe that the creek water will have the best results because it is the most naturally-found source of water

### Materials and Other Resources

well

8 Philodendron pieces
4 glass beakers
225 mL of Fiji water
225 mL of Well water
225 mL of Creek water
225 mL of Tap water

### Procedure

- Cut eight pieces off a Philodendron plant
- Fill four beakers with four different types of water to the 225 ml mark
- Put two cut offs of the Philodendron into each type of water
- Label on plants, plant 1 and 2 in each type of water
- Set a date and measure at a constant rate of once per every two weeks
- Record your measurements and make a graph/table to compare measurements

### Data/Observations

Type of water	Level of pH
Fiji water	7
Well water	9
Creek water	8
Tap water	6

#### Starting test: Thursday, January 20

Type of water	Plant 1	Plant 2
Fiji water	2.4 grams	2.2 grams
Well water	2.0 grams	3.3 grams
Creek water	1.3 grams	3.1 grams
Tap water	1.8 grams	2.0 grams

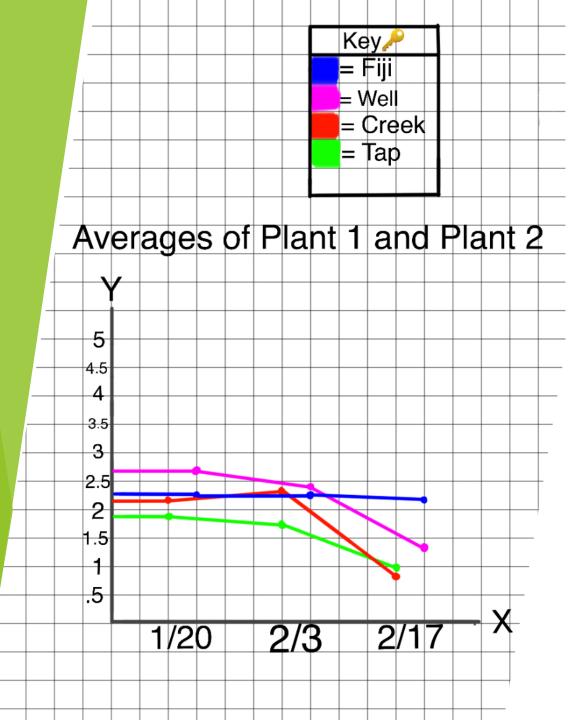
### Data/Observations

#### Second test: Thursday, February 3

Type of water	Plant 1	Plant 2
Fiji water	2.1g	2.5g
Well water	2.1g	2.7g
Creek water	1.2g	3.5g
Tap water	1.2g	2.2g

#### Third test: Thursday, February 17

Type of water	Plant 1	Plant 2
Fiji water	2.5g	2.3g
Well water	.8g	2.0g
Creek water	.5g	1.1g
Tap water	1.2g	.7g



### Data/Observations

### Conclusion

## Bibliography

- My hypothesis was incorrect, I thought it would be creek water but it turned out to be Fiji water.
- It was Fiji water because, of all the waters I tested, Fiji water had the most neutral pH level.

https://www.usgs.gov/media/images/phscale-0