



Planting Science Presentation

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Class Period: 1



Background Information

- Plants do photosynthesis in order to produce food
- Some factors that could affect the rate of photosynthesis could be light and water
- Plants need Carbon dioxide, sunlight and water to do photosynthesis.
- Photosynthesis produces glucose and oxygen
- Cell Respiration uses glucose, oxygen, and water to produce Carbon Dioxide and water

Research Question

How will light and dark environments affect the pH of water with elodea in it?

Hypothesis

The dark environment will have a lower pH, it will be more acidic because there will be no photosynthesis in the dark and the Carbon Dioxide will stay in the water

Procedures

We put elodea into 4 cups of water, two in the light and two in the dark. We put phenol red into the water. We then placed two of the test tubes under a lamp and two wrapped in tinfoil. We checked them the next day

Data

Test Tube	Initial Color	Final Color
Light 1	Dark Pink	Purple
Light 2	Dark Pink	Purple
Dark 1	Dark Pink	Yellow
Dark 1	Dark Pink	Yellow

Conclusion

The data shows that without photosynthesis there is more carbon dioxide in the water causing it to be more acidic.