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## My Prediction:

As photosynthesis progresses, the level of carbon dioxide will decrease.

## My Strategy:

I will place a plant in an environment with carbon dioxide and light for photosynthesis to occur. I will use a pH indicator to monitor the level of carbon dioxide. I will compare the results to a negative control without a plant.

## Analysis:

What is happening to the level of carbon dioxide in the experimental test tube with the Elodea leaf as indicated by the red color in the tube?

The level of carbon dioxide is decreasing.

What is happening to the level of carbon dioxide in the negative control test tube without the Elodea leaf as indicated by the yellow color in the tube?

The level of carbon dioxide is unchanged.

## Lab wrap up:

Why are carbon dioxide levels changing in the tube with Elodea?

Carbon dioxide levels are dropping because carbon dioxide is a reactant in photosynthesis.

## Collected Lab Data

| | Elodea | Control |
|---|---|---|
| **Time for color change (min)** | 6 | x |