



Student:

XXXXXXXXXX

Class:

XXXXXXXXXX

Stanford Experiment on Photosynthesis in *Chlorella*

**Objective:** Understand how photosynthesis is affected by different environmental conditions.

**Background:** Photosynthesis is the process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water. Photosynthesis in plants generally involves the light-dependent reactions and the Calvin cycle, producing oxygen as a byproduct.

1. The purpose of this experiment is to determine the rate of photosynthesis in *Chlorella*.

2. Hypothesis: The rate of photosynthesis will increase with light intensity.

Light Intensity

Rate of Photosynthesis

Materials and Methods

The *Chlorella* cells were grown in a liquid medium. The cells were then placed in a test tube containing a solution of a substance that can be measured for its rate of photosynthesis. The rate of photosynthesis was determined by measuring the volume of oxygen produced.

A light source (a lamp) was used to provide light to the cells. The rate of photosynthesis was measured by the volume of oxygen produced. The rate of photosynthesis was determined by measuring the volume of oxygen produced.



3. Measure the volume of oxygen produced in the test tube at different light intensities.

4. Calculate the rate of photosynthesis from the volume of oxygen produced.

5. Repeat the experiment with different light intensities to determine the effect of light intensity on the rate of photosynthesis.

6. Analyze the data and draw conclusions about the effect of light intensity on the rate of photosynthesis.

7. Discuss the results of the experiment and compare them with the expected results.

8. What does this experiment tell you about photosynthesis?

Photosynthesis is the process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water. Photosynthesis in plants generally involves the light-dependent reactions and the Calvin cycle, producing oxygen as a byproduct.

9. What does this experiment tell you about the rate of photosynthesis?

The rate of photosynthesis is affected by light intensity. The rate of photosynthesis increases with light intensity up to a point, after which it levels off. This is because the light-dependent reactions of photosynthesis require light energy to produce ATP and NADPH, which are then used in the Calvin cycle to produce glucose.

# Explore Learning Photosynthesis Gizmo Key

**M Woodhall**



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