

## Sodium Alginate Photosynthesis Worksheet

## **Data Table: Mass**

Sample	Mass of Spheres		
Light			
No Light			

## Data Table: Change in pH

Sample	Color Before	pH Before	Color After	pH After	Total Time
Light					
No Light					

## **Post-Lab Analysis and Calculations**

1. What was the change in pH of each of the samples?

- 2. Which sample experienced a higher rate of photosynthesis? Provide evidence to support your answer.
- 3. Which sample had a respiration rate that was higher than the rate of photosynthesis? Provide evidence to support your answer.
- 4. Explain the role of light in photosynthesis.
- 5. Predict the outcome of an experiment in which red, green and yellow filters are placed around different vials containing algae spheres rather than black paper.

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