

Curriculum Lesson Plan

School Name:	Greenfield Academy
Department:	Science
Subject:	Biology
Course Title:	Introduction to Plant Biology
Grade Level:	9th Grade
Topic:	Photosynthesis
Duration:	1 week (5 sessions, 45 minutes each)
Instructor:	Dr. Emily Carson
Assistant Instructor:	Ms. Sarah Williams

Course Description:

This unit on photosynthesis is part of the larger course, "Introduction to Plant Biology." It is aimed to give high school students an in-depth understanding of how plants convert light energy into chemical energy.

Lesson Objectives:

By the end of this unit, students will be able to:

1. Define photosynthesis and its importance in the ecosystem.
2. Identify the raw materials and end products of photosynthesis.
3. Describe the role of chlorophyll and chloroplasts in the process.
4. Conduct an experiment to observe how light impacts the rate of photosynthesis.
5. Analyze data from the lab experiment to draw conclusions.

Academic Standards:

- **NGSS HS-LS1-5:** Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy.
- **Common Core:** CCSS.ELA-LITERACY.RST.9-10.3: Follow precisely a complex multistep procedure when carrying out experiments, etc.

Materials and Resources:

- **Classroom Supplies:** Textbooks, whiteboard & markers, projector for PowerPoint slides
- **Lab Kit:**
  - Leaf samples (spinach, ivy)
  - Light source (lamp)
  - Iodine solution

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