

## PROJECT INSPIRE LESSON PLAN

# CHLOROPHYLL PRINTS

### Curriculum Objectives

Students will extract chlorophyll from a plant part and create a beautiful chlorophyll print. Students will engage in the science concepts behind photosynthesis and chlorophyll and will extract chlorophyll from a plant and create a print with it.

### Details

**Location:** Stono Preserve

**Lesson:** Outdoors

**Activity:** Outdoors

**Time of year:** Anytime, Preferably spring or summer

**Age:** Elementary school

### Materials

- Green leaves (vegetables like kale and spinach, herbs like basil and mint, green leaves from trees and shrubs)
- Pieces of white fabric or watercolor paper
- Metal spoons
- Masking tape

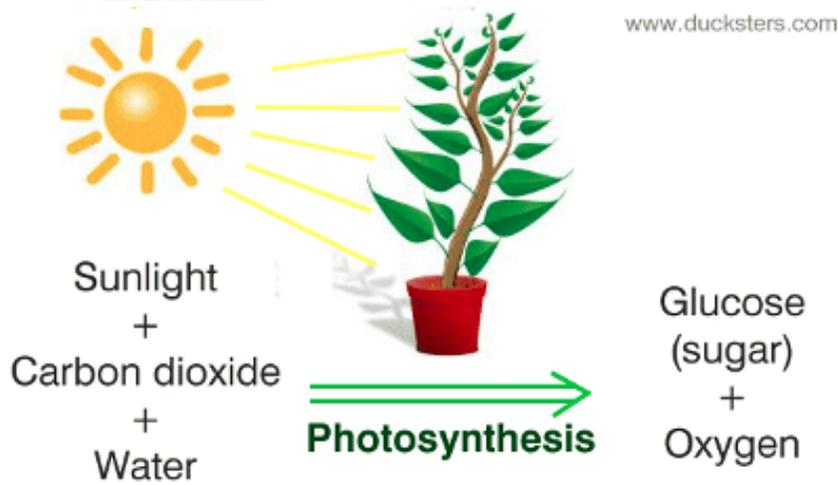
### Activity

1. Review concepts of photosynthesis and chlorophyll with your students. Light is a form of energy. Plants need energy to develop and grow. Humans and animals get their energy from plants. Plants get their energy from the sun, which works to combine water and carbon dioxide to produce sugar. Plants contain chlorophyll, a green pigment that traps the sun's energy. Plants use the sun's energy to combine water and carbon dioxide together to make sugar. Every part of a plant has chlorophyll and makes sugar.
2. Fold a piece of paper or fabric in half and open it up again. Place a leaf face down on half of the paper/fabric, and fold the other half over it. Tape the paper/fabric to the table so that it stays in place.
3. Use the bottom of a spoon to press firmly and rub it across the paper/fabric.
4. Rub the spoon over the entire leaf area so that all of the leaf's chlorophyll will be transferred to paper or fabric. The chlorophyll print will be more prominent on the paper because it is thinner and will absorb the chlorophyll more easily than fabric.
5. Repeat this process as many times as you like, trying different leaves and paper or fabric materials.

## Additional Resources

- Taken from [Dig Art! Cultivating Creativity in the Garden \(PDF\)](#).
- [Photosynthesis | Educational Video for Kids \(video\)](#).
- [Photosynthesis for Kids \(website\)](#).

Source: [Ducksters](#)



Source: [Flash Education](#)

