



**SUSTAINABLE TEACHING CURRICULUM
LESSON PLAN**

Plants

Primary Subjects- Science, Art

Objectives:

- The students will learn how plants grow and survive.
(Illustrate the process of photosynthesis)

Materials:

- Markers, crayons, or colored pencils (something to color with)
- Enough copies of the plant picture for every student

Introduction to Lesson:

1. Anticipatory Set

- “What do plants need to grow?”
- “What do they eat?”

2. Purpose: to discover how plants grow and what they need to do so

Major instructional Sequence:

- Describe photosynthesis
 - Plants are the only living things in the world that don't need to find food to eat
 - Plants make their own food in their leaves
 - And when they make their food they give off Oxygen
 - “Do you know what humans need Oxygen to do?”
 - So plants help make the air clean for us to breath
 - They take Carbon dioxide from the air, chlorophyll (the stuff that makes them green) from their leaves, water, and sunlight to make food.
 - almost like when we bake a cake and use eggs, flour, and sugar to make our food
 - they use the sun to convert the air, chlorophyll and water into energy just like we use an oven to bake our food
- Handout plant pictures to be colored in by students
 - Have them color the leaf green because chlorophyll makes plants green

- Have them color the stem and veins blue and explain that the leaf gets water from the roots which carry up the stem and veins
- Have them color the rays of the sun yellow because leaves soak up sunlight
- Have everyone take a deep breath and tell them that when a plant makes its food it has leftovers and these leftovers are Oxygen that helps us breath
 - Let them color the oxygen whatever color they want because it is their oxygen for breathing

Concluding Sequence:

- “How do plants eat?”
- “How do they help us when they make food?”

Background:

Essential to the love of the environment is understanding the environment. This lesson plan gives students a better understanding of how plants survive, and why plants are so helpful to humans. Because plants take in carbon dioxide and give off and oxygen, they are essential to keeping the air clean for humans and many other animas. We want to impress upon students the importance of protecting plants (such as the rain forest) and the importance of planting new vegetation.

Vocabulary:

Photosynthesis: a process by which plants make energy by taking in carbon dioxide, sunlight, and water and giving off oxygen.

Oxygen: air or what humans and many animals need to breath