



**SUSTAINABLE TEACHING CURRICULUM  
LESSON PLAN**

## **Pollution**

Primary Subjects- Science

Objectives:

- The students will learn about which daily activities cause pollution.

Materials:

- Two posters: one that reads “Makes air dirtier.” another that reads “Makes air cleaner.”

Introduction to Lesson/ Anticipatory Set:

- “What is pollution?”
  - carbon dioxide, carbon monoxide, smog... etc.
  - “Has anyone ever noticed that sometimes the air in big cities smells different and sometimes is harder to breath?”
    - For the most part that is because of pollution
- “Why is pollution bad?”
  - because it makes our air dirty and hard to breath
- “Everyone take a deep breath.”
  - “When you breath in oxygen is filling your lungs and the oxygen goes through your blood stream and gives you energy.”
  - “So without Oxygen we wouldn’t be able to run, jump play or even move.”
- “Air that is polluted is dirty and it can have affects on a person’s health.”

Major instructional Sequence:

- Set up the pollutants game
  - Put up each poster on opposite sides of the room
- Describe to students the way the game works: a teacher will read out an action and students will move either to the side of the room with the poster that says: “Makes air dirtier.” (if they think that action causes more pollutants to be released) or the poster that reads “Makes air cleaner.” (if they believe that action makes air cleaner.)
- Read out the following actions:
  - “Planting a tree.”
  - “Driving a car.”

- “Burning coal.”
- “Growing tomatoes.”
- “Smoking a cigarette.”
- “Producing goods in a factory.”
- “Planting a rose bush.”

Concluding Sequence:

- “What makes air dirty.”
  - Pollutants like CO<sub>2</sub> etc.
- “How can we make air cleaner and reduce pollutants?”
  - growing plants
    - “Why?”
    - because plants take in CO<sub>2</sub> and make it into Oxygen which we breath

**Background:**

This lesson plan will teach students about the harms of pollution. It will also build upon past lessons by drawing a connection between plants and carbon dioxide. (Plants reduce pollution because they take in carbon dioxide and give off oxygen.)

Vocabulary:

**Carbon dioxide:** “dirty air”, a type of pollution or “smoke” that is bad for humans to breath (plants breath it in and give off oxygen)

**Carbon Monoxide:** “dirty air”, a type of pollution or “smoke” that is harmful for humans to breath