



## Center for the Environment at Catawba College

# Campaign for Clean Air

### Clean Air in the Classroom

## Stage 1 Activity 5

## "The Vulcan Project"

### Overview

As students of the 21<sup>st</sup> Century, your seventh grade students will enjoy this program that involves the implementation of Google Earth! They will get to interact with a high-resolution map that depicts actual data on CO<sub>2</sub> emissions from sources including aircraft, commercial, electricity production, industrial, residential and transport.

Talk about technology! This program provides an opportunity for the students to use appropriate technology to learn about air quality, which is a necessity in today's classrooms.

This lesson is based on the Google Earth application "The Vulcan Project" and can be reviewed on the website <http://vulcan.project.asu.edu/index.php>.

### North Carolina Standard Course of Study

This lesson meets seventh grade science competency goals 3.03, 3.04, and 3.06.

### Learning Objectives

Students Will Be Able to understand and explain the meaning behind the word Vulcan.

SWBAT record the total metric tons of carbon in their own county, two neighboring counties, one of the most and one of the least populated places in the United States.

### Materials

- Computer Lab Access
- "The Vulcan Project" Lab Guide

### Procedures

- 1.) Take the students to the computer lab with the "Lab Guide" that is available on the website.

### Assessment

- 2.) Grade their worksheet for accuracy.