



# EVERY ACTION MATTERS

CLASSROOMS TAKE CHARGE

## Service-Learning Lesson Plan

**Project:** Students Journaling CO<sub>2</sub> emissions in their daily lives and sharing with five friends/family members.

**Author:** Paula Roberts at Ontario High School in Ontario, OR

**Project Overview:** Through classroom activities about the atmosphere and energy, students will raise their own awareness about how daily actions contribute to the CO<sub>2</sub> in the atmosphere.

---

### Learning Objectives

Students will be able to identify five ways their daily actions contribute to the CO<sub>2</sub> emissions in the atmosphere. Students will be able to list three behaviors they tried to alter in their lives to reduce CO<sub>2</sub> emissions over 30 days.

#### How were the learning objectives evaluated?

Reading their journaling.

### Service Objectives

Awareness; sharing with others; starting higher-level conversations about the environment and the effect we have on it.

#### How were the service objectives evaluated?

Journaling and reading the journaling. Students honestly answered anywhere from “I did nothing” and “it was easy” and everything in between.

### Human Energy Systems Units Used (For lesson plans visit: [carbontime.bsccs.org](http://carbontime.bsccs.org))

**Activity 2.4:** Identifying Patterns and Asking Questions for Climate Change Data

**Subject Areas:** General Science (Integrated Science)

**Grade Levels:** 9th and 10th

#### **Materials Needed:**

- Access to computers and the Internet for at least 8 days over 4 months

#### **Key Partners:**

- Students in the classroom

#### **Time Required to Complete Project:**

- In class, checking in over 4 months, instruction/curriculum about 5 weeks.

**Activity 3.1** Millions of Flasks of Air

**Activity 3.2** The CO<sub>2</sub> Trend: Your Ideas about the Keeling Curve

**Activity 3.3** Why We Care About the Keeling Curve

**Activity 4.4** Zooming Into Fossil Fuels

**Activity 5.2** Energy Scenarios

### Lessons & Activities

- Daily Student Journals