

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Teacher Sheet: Global Climate Change

✓Fledglings

### Pledge

*After learning about the Global Climate Change, I pledge to help reduce my carbon footprint by doing the following:  
(check the boxes next to the action steps that you are choosing to take)*

- Switch my light bulbs to compact fluorescent light bulbs!
- Unplug appliances (TV, radio, video console, etc) when they are not in use!
- Walk or ride my bike to school at least one day a week!
- Recycle!
- Run the dishwasher only when it is full and let my dishes air dry!
- Plant trees and participate in restoration activities!
- Take showers that are under 5 minutes!
- Compost my food scraps to reduce the amount of trash in landfills!
- Use reusable bags at the grocery store!
- Keep Learning!

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Teacher Sheet: Global Climate Change

✓Fledglings

*For the items you pledged to do, calculate how many pounds of carbon dioxide you will save!*

**Calculate how much Carbon Dioxide you can save!**

Action	Annual Amount of Carbon Dioxide	Pounds of Carbon Dioxide You Will SAVE Annually
Replace a 100 Watt incandescent light bulb with a 27 Watt Compact Fluorescent	100 lbs per bulb	10 bulbs X 100 lbs/bulb = 1,000 lbs of CO <sub>2</sub>
Turn off the light when you leave a room	105 lbs per room	3 rooms X 105 lbs/room = 315 lbs of CO <sub>2</sub>
Plant a tree to shade your house	133 lbs per tree	2 trees X 133 lbs/tree = 266 lbs of CO <sub>2</sub>
Take a short (5 minutes or less) shower	Electric Water Heater: 819 lbs Oil Water Heater: 498 lbs Gas Water Heater: 258 lbs	1 year of 5 min showers X 819 lbs/shower/year = 819 lbs of CO <sub>2</sub>
Turn down the thermostat 1 degree in the winter	Electric: 365 lbs Oil: 222 lbs Gas: 160 lbs	2 degrees X 365 lbs/degree = 730 lbs of CO <sub>2</sub>
Plug leaks around windows and doors. Close curtains or shades at night	Electric: 1,424 lbs Oil: 890 lbs Gas: 623 lbs	Plug leaks in home X 1,424 lbs/home = 1,424 lbs CO <sub>2</sub>
Walk or bike to school! To calculate how much gas you will save: _____ miles to school ÷ 22 miles per gallon (National Average)	For each gallon of gas saved = 19.6 lbs	7 miles to school ÷ 22mpg = 0.3 gallons  0.3 gallons X 19.6 lbs/gallon = 6.2 lbs of CO <sub>2</sub>
<b>Total Pounds per Year =</b>		4,560.2 pounds of CO <sub>2</sub> saved in 1 year