

Title: 10/18 & 25/11 and 11/1/11	GREEN SPACE DATA COLLECTION
Grade and Subject:	8 th -12 th grades
Number of Days for Completion of the Project:	3
Overarching Project Goals/Outcomes:	<p>Students go out and collect data!</p> <p>The past two weeks' classes have been dedicated to the brainstorming/development of the CO₂ compensation project. During the weeks listed above, students will be out in the community collecting data.</p> <p>Students will be broken up into three groups (number of chaperones). Data collected will include tree heights and circumferences and the number of people and cars in a given location. Each group will collect data for a given location, with class results compiled to create a large database of information.</p> <p>Location of trees will be recorded using a GPS; photos of each tree will be taken, with a person next to the tree for reference, and tree names will be created using the street name and a unique identification number.</p> <p>The last 15 minutes of the first day of data collection will be dedicated to debriefing, allowing students to provide feedback about how they can change and improve the data collection process/procedure.</p>
Materials:	<ul style="list-style-type: none"> ● Measuring tapes ● Clickers ● Data tables ● Pen/pencils ● Digital Camera ● GPS ● Clipboards
Introduction:	<ol style="list-style-type: none"> 1. Previous class' brainstorming sessions on project hypothesis/procedure/methods.
Instruction/Direct Experience:	<ol style="list-style-type: none"> 1. Collecting and recording data. 2. Working in a team environment with fellow scientists.
Independent Activities:	Class will be broken up into teams and as a group will collect data.
Assessment:	Student's team working and data collection skills.
Follow-up	Following the completion of data collection, students will analyze data.



	The results, discussion, and conclusion sections for the project will be developed.
--	---

Question: How do the number of cars affect CO₂ levels in our community?

Date: _____

Time Slot: From _____ to _____

Location: (Streets) _____ and _____

Team: _____

Vehicle Type	Count	Total	Notes (ex. # of people in the car)
Coupe (2-door)			
Sedan (4-door)			
Van			
Bus			
Truck			

*Label Hybrids as H if you can identify them

Total Number of Cars: _____

Carbon Footprints of "Big" Trees

DATE: _____

TEAM
:

	Location/Address	# of People	# of Cars
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

TOTAL # PEOPLE:

TOTAL # CARS: