

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

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

**Lab 8: Green Building Lab Report**

**Methods (15 points):** Briefly describe the process by which you go about making changes to the house to make it more energy efficient and sustainable. **Pay close attention to the details in your HUD about how each change makes a difference in terms of energy efficiency, heating or cooling, etc.**

**Results - Table (45 points):** This section will include a list of the changes that were made at the house to make it more sustainable. You will need to make at least twenty changes in the house and note them below in the table. You are required to make at least one change in each room. We have given you an example:

	Room	Object/Item	Change	How does the change make the house more sustainable or energy efficient?	Value
1.	Lobby/Foyer	Windows	Double glazed to triple glazed	Better heat retention; less energy used for home heating.	\$25
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

**Discussion (40 points):** Discuss from the changes above which ones you think are most efficient (20 points). Discuss at least 5 changes you could make at your own house to make it greener (20 points). You can find information on energy consumption in households in the pre-lab quiz material and the web links. You should evaluate the effects from any change you make using a “carbon footprint calculator” like the one at the EPA or the Nature Conservancy. You can use the national average values for your energy use if you don’t have access to your utility bill.

<https://www3.epa.gov/carbon-footprint-calculator/>

<http://www.nature.org/greenliving/carboncalculator/>