Student Worksheet #1: Climate

You will need the following materials for this exercise: United States Map of Cities & States (you might find this in your Social Studies book) and copies of the NOAA maps from your teacher.

Part 1: Did you know that the climates of the world are divided into six major categories? Do you know what the categories are and where they are located? Read the printout from this NOAA (National Oceanic and Atmospheric Agency) site http://www.srh.noaa.gov/jetstream/global/climate.htm to complete the chart below: (the first one has been done for you)

CATEGORY & NAME	LATITUDE	CLIMATE FEATURE	
A: Tropical	15°-25°	Average temperatures=64°F	200
		Annual precipitation=59"	
B: dry	20°-35°	dry climates, not	
Climates	20-33	70° For higher, 5-12	inchesof
c: Subtropical		/55-60°	rairi
C: Outropical	30,50		
D: 0	30-59	50-70 inches or rain in the sumer is 45-	500
D: Continental	to poies		
F: Dolo	North	highest. 1550°F	
E: Polar	POICS	Dercipitation = 30-40	
	mountain-	Percipitation = 30-40 Climates based on	
I nightands	pus areas	elevation	

Use the climate map on this webpage to find the state you live in and record the climate category: MY STATE:

MY CLIMATE CATEGORY: WAT A MANAGED AND A STATE OF THE CATEGORY OF THE CATEGORY

Find three states that have differe	nt climates and record below:
STATE: WWW.	CLIMATE CATEGORY: DOICH
STATE: TLXCLS	CLIMATE CATEGORY: Ory CliMates
STATE: Vermont	CLIMATE CATEGORY: highlands

Part 2:

- 1. Look at the printed image from:

 http://www.ncdc.noaa.gov/img/about/cdrom/climatls1/info/temp.gif to find the Annual Mean Daily Temperature for the cities in the chart below. Record the Annual Mean Daily Temperatures on the data chart.
- 2. Look at the printed image from:

 http://www.ncdc.noaa.gov/img/about/cdrom/climatls1/info/prec.gif to find the Annual Mean Total Precipitation for the cities. Record the Annual Mean Total Precipitation on the data chart.
- 3. When you have recorded the temperature and precipitation for each city, think about which city you would like to visit and rate each city according to your preference.

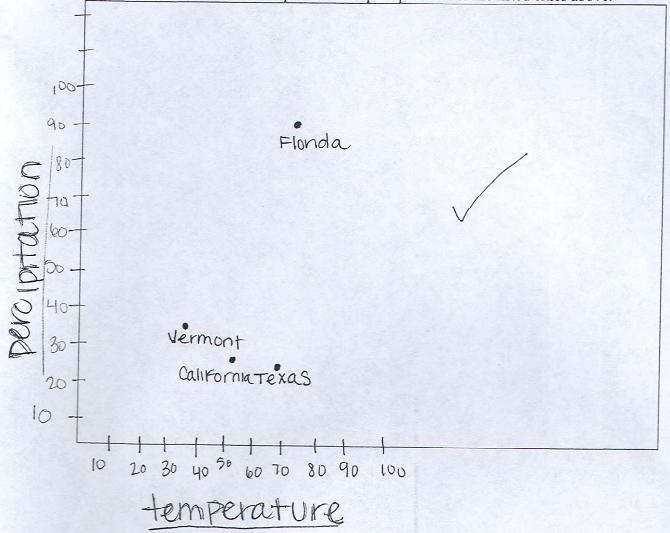
City	Annual Mean Daily Temperature	Annual Mean Total Precipitation	Rating #1 Choice #2 Choice #3 Choice #4 Choice
Your City, State:	05-70°	50-70	
Galveston, Texas	70°	20-30	
Burlington, Vermont	32°-40°	30-40	3
San Francisco, California	55-60°	20-30	4
Miami, Florida	700	70-100	2

You will need the climate data sheets from Worksheet #1, "What's The Climate?" to complete this task.

Challenge: You are employed as a climatologist for the National Oceanic and Atmospheric Agency (NOAA) in your city. Your role is to work with your team to set up weather stations that record the daily weather for your region throughout the year and compile annual climate data reports. Your supervisor has just notified you that your team is being transferred from your current city to one of these cities:

- ♦ Galveston, Texas
- ♦ Burlington, Vermont
- ♦ San Francisco, California
- ♦ Miami, Florida

Part 1: Using the temperature and precipitation data from the "What's The Climate?" table, create a graph that illustrates the data. You may decide what type of graph to use, but it must show the mean temperature and precipitation for the listed cities above.



Part 2: Your team must now decide which city you will relocate to first, second, third, and fourth. Your length of stay in each location is approximately two years. Using the graph above, write a detailed report for your supervisor stating your choices and provide detailed explanations to support your decision. There is no right answer for this, just explain your reasoning and you will be okay.

The first city that we decided would be best to relocate
at would be Burington, vermont. We choose vermont first
because in the winter the temperature is below freezing, but
the snow makes it worth whe also the summers are
not over bearingly hot. OUT second choice to move
to world be son Francisco, the person who we choose
San francisco was the fact that they do not
got a though a high average rain fall rate, and
it has a Mil average temperature. The third city
we choose to move to was Galvaston, because Galvaston
also has a low rain fell rate and mild winters. We
Chase man last for the reason that it gest gets
much too hot in the summer, and the average
rain fall rate is much higher than the previous
three cities.