**Climate and Oceans Study Guide**

**Define**

-greenhouse effect -Temperate zone -global warming

-climate -Polar zone

-salinity -Tropics

-density current -heat island

- climatology -microclimate

1. List reasons why carbon dioxide levels have been increasing in the atmosphere.

2. What causes Earth's global temperatures to increase?

3. Which gas is most responsible for the greenhouse effect on Earth?

4. List several natural causes of climate change.

5. Why do humans need the greenhouse effect for survival?

6. What two things affect the density of ocean water?

7. Describe the leeward and windward side of a mountain.

8. What controls or causes the surface currents in the ocean?

9. Is El Nino and La Nina a factor that causes global warming?

10. What are some natural ways the salinity of ocean water decreases?

11. How does deforestation help to increase global warming?

12 Describe the weather that occurs during El Nino and La Nina.

13 How can people help reduce global warming?

14. Which direction does the Coriolis effect cause currents in the northern hemisphere? (Counterclockwise or clockwise)

* Written responses= How can a large body of water change the nearby climate?

= Define global warming and the greenhouse effect

Describe one human activity that is increasing the amount of greenhouse gases in the atmosphere

Describe two consequences of global warming.

\*List five greenhouse gases and where they come from.\*