Hypothesis:

I hypothesize that when inserting Carbon Dioxide the plant life will remain the same if not thrive, the heat may increase slightly, and animal life will not be affected dramatically. I hypothesize that when inserting Water Vapor into the closed environment, the temperature will remain the same if not decrease due to reflected sunlight off of the vapor, I hypothesize that the plants and animals will not be affected very much. I hypothesize that the Methane will decrease the plants growth if not kill them along with the animals, I hypothesize that the temperature will increase slightly.

Procedure:

Step 1:

I started my experiment by recreating an enclosed environment in a ten gallon fish tank. I first created the lower layer, which consisted of clay, soil, and sand. I then planted 5 plants within the soil, and tapped two thermometers on the inside of the tank, one above the sand, and the other under the soil. Then I placed a lamp above the tank to represent the sun. I recorded the temperature of both the thermometers into a data table, this was so I could find the average temperature within the tank when there were no other gasses.

Step 2:

After creating my environment I introduced two different greenhouse gasses on separate trials. These being Water Vapor, and Carbon Dioxide. I also preformed a trail without any greenhouse gases to make the comparison easier. I measured the ground and atmosphere temperature of the tank for an hour, and recorded my results in a data table.