**Lab 5 – Weather and Climate Change**

**Lab 5 - Demonstration 1: Modeling the Water Cycle**

In this experiment you will observe how entrapped water moves from land to the atmosphere and determine how weather conditions affect this movement.

**POST-LAB QUESTIONS**

1. **Which water cycle processes are represented in this model, and what component of the model represents that process?**

Answer =

1. **Which processes are not represented? Propose a change to the model in which two of these processes would be included.**

Answer =

1. **How would the processes in question 1 be altered by an increase or decrease in temperature?**

Answer =

**Experiment 1: Assessing Infiltration**

In this experiment, you will observe how entrapped water moves from land to the atmosphere and determine how weather conditions affect this movement.

**POST-LAB QUESTIONS**

1. **Develop a hypothesis predicting the effect of sunlight on evaporation.**

Hypothesis =

|  |  |  |
| --- | --- | --- |
| **Table 1: Infiltration Observations** | | |
| **Sample** | **Observations at 1 Hour** | **Observations at 12 Hours** |
| **Sunny Location** |  |  |
| **Shady Location** |  |  |

1. **Would you reject or accept your hypothesis? Why?**

Accept/reject =

1. **What parts of the water cycle are represented in this experiment?**

Answer =

1. **How would adding more sand to the bag affect the amount of water vapor released?**

Answer =

1. **As a period of drought begins, how would infiltration and condensation change initially? What would happen to these two processes as the drought continues over time?**

Answer =

**References**

Any sources utilized should be listed here.