**­­­­Microclimate Investigation Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Hypothesis 1: (Write out your first hypothesis here. You should pick a one of the weather characteristics we know we can measure and write out a hypothesis. In this you should state what you think will happen to this characteristic in your two different locations)

Explanation: (Write an explanation to give the reasons for your first hypothesis here)

Hypothesis 2: (Choose a different weather characteristic here and write your second hypothesis)

Explanation: (Write an explanation to give the reasons for your second hypothesis here)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Starting location | Location 1(Write in your 7th floor location below, be specific) | Location 2(Write in your 5th floor location below, be specific) |
|  | **School Roof** |  |  |
| Weather Characteristic |  |  |  |
| Weather Characteristic |  |  |  |

Now complete the table to show the data that you collected. Make sure you put in the unit measure (is it meters per second? Fahrenheit? Celsius? etc)

**Methodology**

(Here you need to write down the method we used for collecting the data. What equipment did we use? How did you use it to collect the data. Imagine you are trying to explain it so that someone who has never collected weather data before could understand it and follow exactly what you did. This should be step by step, like a recipe for making food)

|  |  |
| --- | --- |
| **Weather Characteristic 1** | **Weather Characteristic 2** |
|  |  |
| Method; | Method; |

**Data Presentation**

(Now I would like you to produce a chart or graphs to show the data collected. You can use graph paper and glue it in to the space on this sheet if required

**Data Description**

(You should now write a short paragraph to explain the data for **each** characteristic. All you need to do here is describe any patterns shown in your graph, is it going up or down as we move to different locations? Where was the highest reading? Where was the lowest reading? Etc)

**Data Explanation**

(You should now write a short paragraph for **each** of your weather characteristics to explain why they change between the different locations. Explain why the temperature is high in one location and not the other, also mention any results you did not expect)

**Hypotheses**

(For each hypothesis, circle the appropriate word. If it is correct we would say that the hypothesis is “accepted”, if it wasn’t correct, we say that the hypothesis is “rejected”. It doesn’t matter if they are accepted or rejected, often we can learn more from a rejected hypothesis – so rejecting a hypothesis is not a sign of failure, just that we found something interesting)

**Hypotheses number 1 is Accepted Rejected**

**Hypotheses number 2 is Accepted Rejected**

**Conclusion**

(What does our mini investigation tell us about microclimates at VSA?. Write at least a paragraph to explain what we have found out so far about the microclimates that exist in VSA)

**Reflection**

(How could we improve our study to find out more about microclimates? Here you should come up with some ideas that we could follow to increase our knowledge of microclimates – what could we do in a future investigation to improve on what we have done so far? Could we do more measurements? in different locations? Could we measure different things? Give some suggestions and aim to be specific)