Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Weather Log Analysis**

**Part 1: Graph Analysis-** Answer the questions below using your weather data and graphs.

Graph 1: Temperature over Time

1. a)How did the temperature change over time? (Increased, decreased, stayed the same)

b) Why do you think the temperature changed?

 c) On how many days was the forecasted temperature different from the actual temperature by 5 degrees or less?

 d) On how many days was the forecasted temperature different from the actual temperature by 6 degrees or more?

 e) Were the temperature forecasts accurate (correct) most of the time? How do you know?

 f) Was there any temperature data that you did not expect for this time of year? Why or why not?

Graph 2: Precipitation over Time

1. a)How did the precipitation change over time? (Increased, decreased, stayed the same)

b) Why do you think the amount of precipitation changed?

 c) On how many days was the forecasted precipitation different from the actual precipitation?

 d) On how many days was the forecasted precipitation the same as the actual precipitation ?

 e) Were the precipitation forecasts accurate (correct) most of the time? How do you know?

 f) Was there any precipitation data that you did not expect for this time of year? Why or why not?

Graph 3: Frequency of Weather conditions

1. a)How did the weather conditions change over time? (Example: Did it start sunny and become more cloudy?)

b) Why do you think the weather conditions changed?

 c) On how many days was the forecasted weather condition different from the actual condition?

 d) On how many days was the forecasted weather condition the same as the actual condition ?

 e) Were the weather forecasts accurate (correct) most of the time? How do you know?

 f) Was there any precipitation data that you did not expect for this time of year? Why or why not?

**Part 2: Conclusions**- Complete the sentences below to demonstrate what you have learned about weather.

1. Scientists study the weather because…..
2. Weather is important to me because….
3. Weather means….
4. Forecasts are \_\_\_\_\_\_\_\_\_\_\_\_\_because….
5. Graphs are helpful because….
6. It is difficult to predict weather because….