Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Excel Graph Analysis Questions

Completed Data Chart: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part I: Temperature vs Humidity

|  |  |
| --- | --- |
| Complete Data & Chart |  |
| My Data R2 value |  |
| Weather.com R2 value |  |
| According to your data are temperature and humidity correlated? |  |
| According to weather.com data are temperature and humidity correlated? |  |
| How can you explain this?  (Think about what humidity is and the type of weather it brings. Is it only in cold or warm weather or does it happen in all season?) |  |
| Were there any days where your recorded data was WAY different than reported from weather.com. If so, list the days  (If more than 4 degrees in temperature difference or 4% humidity difference) |  |
| Why would there be differences in your data and weather.com? |  |

Part II: Temperature vs Wind Speed

|  |  |
| --- | --- |
| Complete Data & Chart |  |
| My Data R2 value |  |
| Weather.com R2 value |  |
| According to your data are temperature and wind speed correlated? |  |
| According to weather.com data are temperature and wind speed correlated? |  |
| How can you explain this?  (Think about what wind is and the type of weather it brings. Is it only windy cold or warm weather or does it happen in all season?) |  |
| Were there any days where your recorded data was WAY different than reported from weather.com. If so, list the days  (If more than 5 mph wind difference) |  |
| Why would there be differences in your data and weather.com? |  |

Part III: Humidity vs Wind Speed

|  |  |
| --- | --- |
| Complete Data & Chart |  |
| My Data R2 value |  |
| Weather.com R2 value |  |
| According to your data are wind speed and humidity correlated? |  |
| According to weather.com data are wind speed and humidity correlated? |  |
| How can you explain this?  (Think about what humidity is and what causes wind) |  |

Part IV: Humidity & Clouds

|  |  |
| --- | --- |
| Complete Chart |  |
| Is there any relationship between humidity and clouds? (were there only clouds on high humidity days or low humidity days) |  |
| How can you explain this? |  |

Part IV: Wind Speed & Clouds

|  |  |
| --- | --- |
| Complete Chart |  |
| Is there any relationship between wind speed and clouds? (were there only clouds on windy days or not windy days) |  |
| How can you explain this? |  |

Other Questions:

1. Name one way you would improve this lab or any other data you would have liked to measure.
2. What did you learn in this lab about weather?