Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_ Turn In # \_\_\_\_\_\_\_

**Track Weather like a Meteorologist**

1. Locate the following two cities on a world map: New York, NY, USA and Sao Paulo, Brazil.
2. Based on its location on the map, what do you think the temperature will be like in **New York**? Explain why.

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1. Based on its location on the map, what do you think the temperature will be like in **Sao Paulo**? Explain why.

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**Data from my Location: Raleigh, NC – Track the weather for two weeks for these three locations.**

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| Date\_\_\_\_ | Time\_\_\_\_\_ | Temperature \_\_\_\_\_ | Dew Point \_\_\_\_ | Humidity \_\_\_\_ | Wind Speed \_\_\_\_ | Wind Direction \_\_\_\_\_\_\_ | Air Pressure \_\_\_\_\_\_ | Precipitation \_\_\_\_\_\_ | Sky Conditions | Sunrise \_\_\_\_\_\_ | Sunset \_\_\_\_\_ |
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**Data from New York, NY (or another city of the same or more northern latitude) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| Date\_\_\_\_ | Time\_\_\_\_\_ | Temperature \_\_\_\_\_ | Dew Point \_\_\_\_ | Humidity \_\_\_\_ | Wind Speed \_\_\_\_ | Wind Direction \_\_\_\_\_\_\_ | Air Pressure \_\_\_\_\_\_ | Precipitation \_\_\_\_\_\_ | Sky Conditions | Sunrise \_\_\_\_\_\_ | Sunset \_\_\_\_\_ |
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**Data from Sao Paulo, Brazil**

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| Date\_\_\_\_ | Time\_\_\_\_\_ | Temperature \_\_\_\_\_ | Dew Point \_\_\_\_ | Humidity \_\_\_\_ | Wind Speed \_\_\_\_ | Wind Direction \_\_\_\_\_\_\_ | Air Pressure \_\_\_\_\_\_ | Precipitation \_\_\_\_\_\_ | Sky Conditions | Sunrise \_\_\_\_\_\_ | Sunset \_\_\_\_\_ |
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**Analysis – Look for patterns in the data!**

1. Briefly describe the overall weather for each of the 3 cities over the time period we collected data.

Raleigh

NYC

Sao Paulo

1. How did the weather change during that time for each of the 3 cities.

Raleigh

NYC

Sao Paulo

1. How was the weather the same or different in the 3 cities compared to each other? (which was coldest, warmest, most humid, most rain, most daylight, least daylight, etc.)

Raleigh

NYC

Sao Paulo

1. Explain WHY Sao Paulo was so different than NYC and Raleigh.
2. Name 3 other cities in the world with similar weather to each of the 3 cities. (Choose same latitude!)

Raleigh \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ NYC \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sao Paolo \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_