

Name: \_\_\_\_\_

# CHARTING THE WEATHER

For this activity, you will record data about the weather in three locations for one month. You will then create and analyze a graph based on the data you collected.

## Pre-Activity Questions:

1. **Find the town where you live on a globe.** Compare the location of **your town** to the following cities: San Juan, Puerto Rico and Anchorage, Alaska.

What do you notice about these three locations?

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2. How do you think the weather will differ in these three locations? Why?

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## Instructions:

On the following pages, you will find a data chart for each of the three locations: Your town, San Juan, Puerto Rico, and Anchorage, Alaska. Use the search tool in the top left corner of <https://www.weather.gov/> record the weather data onto each of your charts. Be sure to check the website at the same time each day to ensure accuracy!



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FOR WATER AND THE ENVIRONMENT  
TEXAS STATE UNIVERSITY

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Name: \_\_\_\_\_

Location #1 is the town where you live: \_\_\_\_\_ Month: \_\_\_\_\_

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Temp (F)																															
Humidity (%)																															
Wind Speed (mph)																															

Anchorage, Alaska Month: \_\_\_\_\_

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Temp (F)																															
Humidity (%)																															
Wind Speed (mph)																															



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## San Juan, Puerto Rico

Month: \_\_\_\_\_

Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Temp (F)																															
Humidity (%)																															
Wind Speed (mph)																															

## Post-Activity Analysis

Once you have collected the weather data for one month, create a multi-line graph for the three cities **temperature** data. Use the graph paper on the next page.

1. Pick a color for each city. On the legend, fill in the square next to the cities name with the color you've chosen.
2. One city at a time, draw a dot for each day's temperature.
3. Once all dots have been drawn for a city, draw a line to connect them!
4. Repeat the steps for the next two cities.



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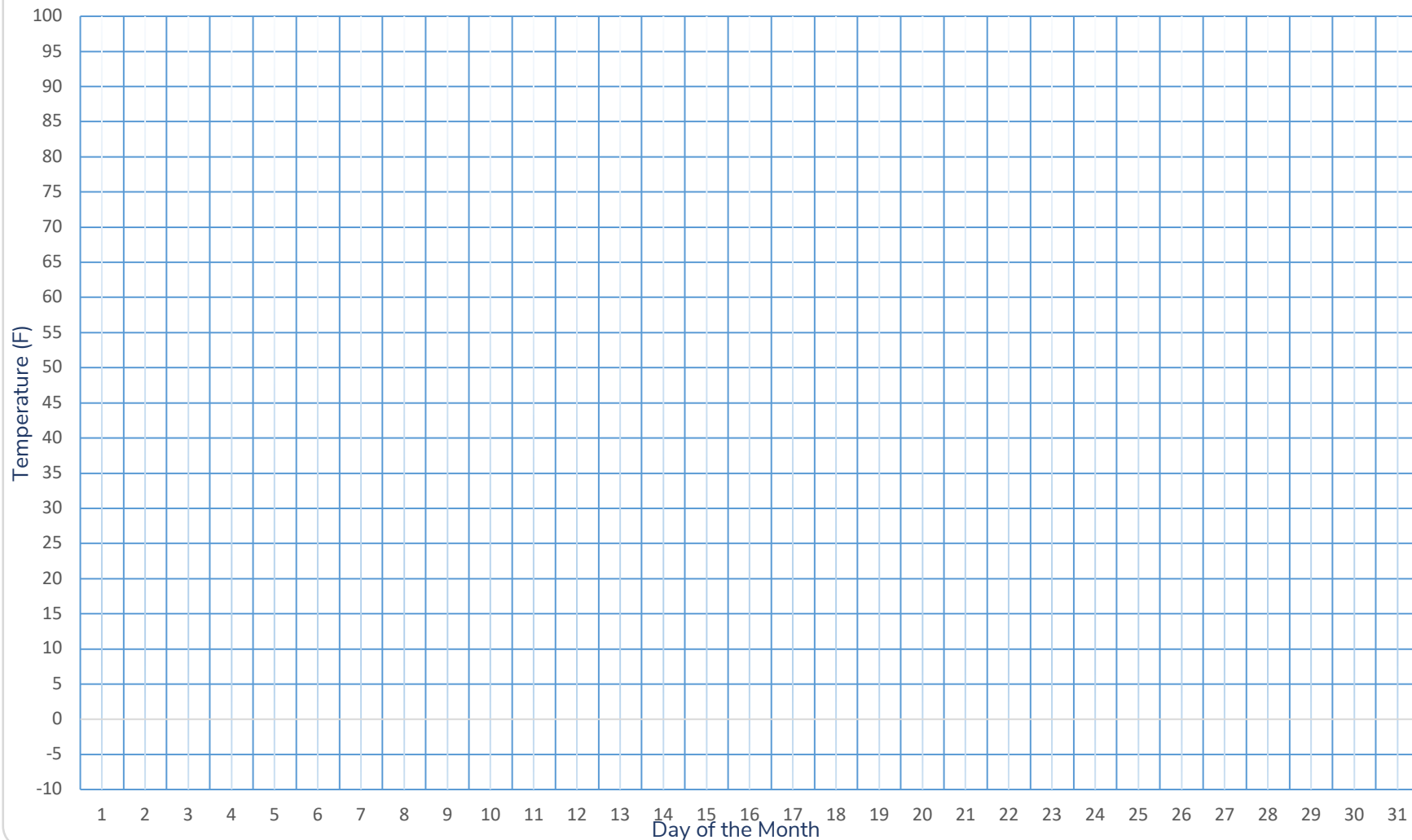
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### Temperature (F) Graph of Three Locations



**Legend:**



Your Location



Anchorage, Alaska



San Juan, Puerto Rico



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## Post-Activity Questions

1. In general, how did the temperature differ for each of the three cities?

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2. Why do you think these locations experienced such different weather conditions?  
(Hint: Look at where they located on the globe)

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3. Could you expect that the weather on this month next year will be similar to the data you collected? Why or why not?

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4. What pattern did you notice between Humidity ad Temperature? Was it more humid on warm days or cooler days?

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**Make a Prediction!** How do you think the weather might be in the Southern Hemisphere this month? Watch the following video link to help you think through this question: [https://youtu.be/nDY\\_Md-jnY0](https://youtu.be/nDY_Md-jnY0)

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