

Weather Project

Why do different parts of the country have different types of weather? In this project you will analyze data that you collect about weather from three different US cities and use what you know to make conclusions about what causes their weather. Data will be collected over a span of three weeks, three days per week. This data will be part of a summative grade.

You can use either weather.com or wunderground.com as a resource to collect your data. Listed below are four sets of US cities. You need to **select one set of cities** to investigate for the next three weeks.

Be sure to look at the directions on the top of the graph page to include all necessary parts of the graph. **You must follow the same cities for the entire three week period.**

Set A	Set B	Set C	Set D
Pinckney, MI	Pinckney, MI	Pinckney, MI	Pinckney, MI
Seattle, WA	San Francisco, CA	Anchorage, AK	Los Angeles, CA
Charleston, SC	New Orleans, LA	Savannah, GA	Miami, FL

*Circle the set of cities you would like to follow.

*Label them on the map below.



Weather Project Directions

For each city, make a bar graph to show the day's high and low temperatures. The scale on the y-axis is in degrees Fahrenheit.

At the top of each bar, write the temperature in degrees Celsius.
You may need to use the following formula to **estimate** (*approximately equal to*) the Celsius temperature:

$$\text{Celsius Temperature} \approx \frac{1}{2} (\text{Fahrenheit Temperature} - 32)$$

City Name 1:

Degrees Farenheit	100	High	Low	High	Low	High	Low
	90						
	80						
	70						
	60						
	50						
	40						
	30						
	20						
	10						
Week 1		Day 1	Day 1	Day 2	Day 2	Day 3	Day 3

City Name 2:

Degrees Farenheit	100	High	Low	High	Low	High	Low
	90						
	80						
	70						
	60						
	50						
	40						
	30						
	20						
	10						
Week 1		Day 1	Day 1	Day 2	Day 2	Day 3	Day 3

City Name 3:

Degrees Farenheit	100	High	Low	High	Low	High	Low
	90						
	80						
	70						
	60						
	50						
	40						
	30						
	20						
	10						
Week 1		Day 1	Day 1	Day 2	Day 2	Day 3	Day 3

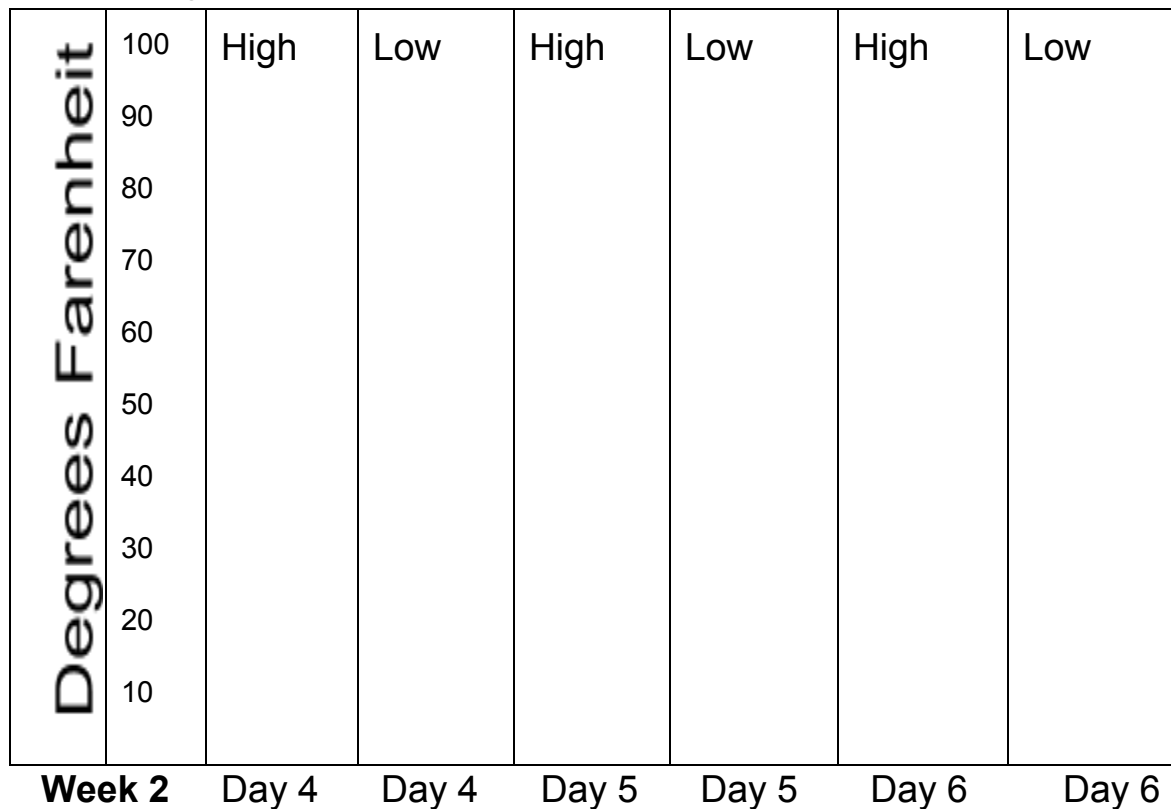
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City Name 1:



City Name 2:

Degrees Farenheit	100	High	Low	High	Low	High	Low
	90						
	80						
	70						
	60						
	50						
	40						
	30						
	20						
	10						
Week 2		Day 4	Day 4	Day 5	Day 5	Day 6	Day 6

City Name 3:

Degrees Farenheit	100	High	Low	High	Low	High	Low
	90						
	80						
	70						
	60						
	50						
	40						
	30						
	20						
	10						
Week 2		Day 4	Day 4	Day 5	Day 5	Day 6	Day 6

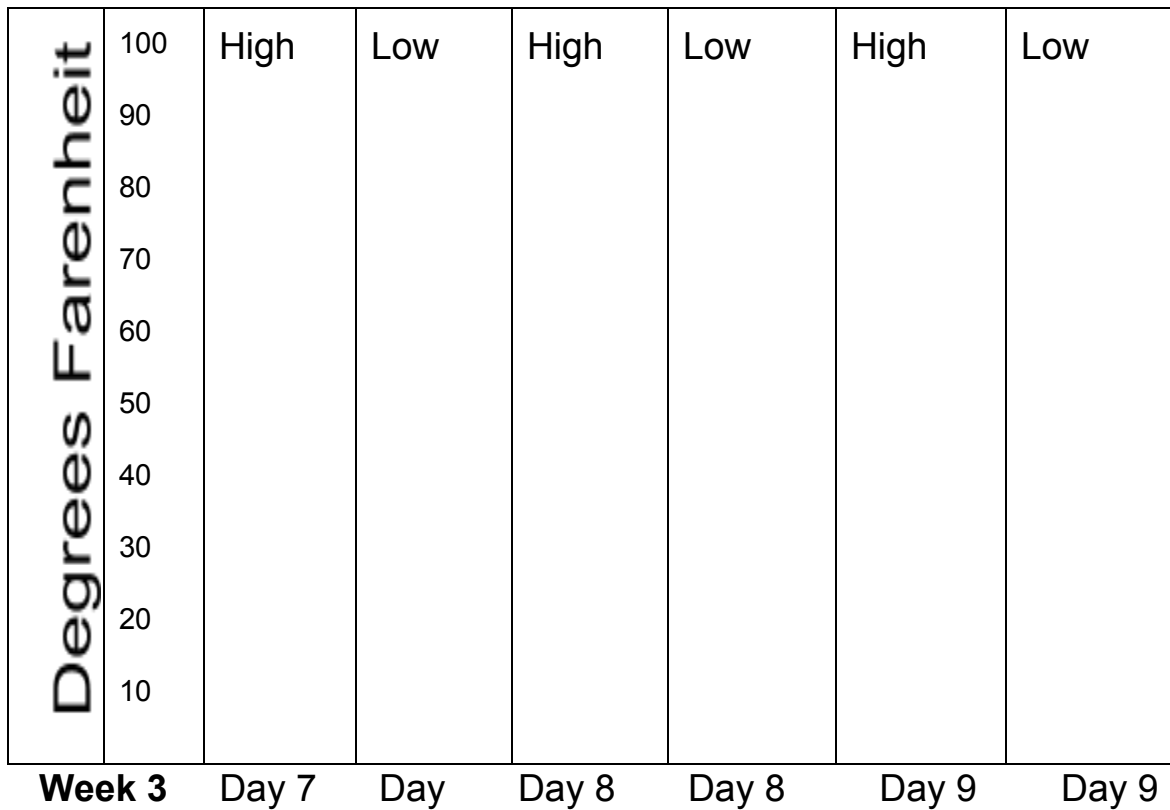
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City Name 1:



City Name 2:

Degrees Farenheit	100	High	Low	High	Low	High	Low
	90						
	80						
	70						
	60						
	50						
	40						
	30						
	20						
	10						
Week 3		Day 7	Day 7	Day 8	Day 8	Day 9	Day 9

City Name 3:

Degrees Farenheit	100	High	Low	High	Low	High	Low
	90						
	80						
	70						
	60						
	50						
	40						
	30						
	20						
	10						
Week 3		Day 7	Day 7	Day 8	Day 8	Day 9	Day 9

Average Temperatures:

Show work to record the **average High and Low temperatures** for each of your chosen cities: ***(Average Temperature: Find the sum of all of the temperatures and then divide the sum by the number of days.)***

City 1: _____

Average High:

Average Low:

City 2: _____

Average High:

Average Low:

City 3: _____

Average High:

Average Low:

Weather History

Now that you have collected the data for your three cities, you need to compare it to the data of the same (or similar) cities from 25 years ago, 50 years ago, 75 years ago, and 100 years ago during the month of October. Search

City Name: _____

Average High in 2016	Average High in 1991	Average High in 1966	Average High in 1941	Average High in 1916
Average Low in 2016	Average Low in 1991	Average Low in 1966	Average Low in 1941	Average Low 100 in 1916

City Name: _____

Average High in 2016	Average High in 1991	Average High in 1966	Average High in 1941	Average High in 1916
Average Low in 2016	Average Low in 1991	Average Low in 1966	Average Low in 1941	Average Low in 1916

City Name: _____

Average High in 2016	Average High in 1991	Average High in 1966	Average High in 1941	Average High in 1916
Average Low in 2016	Average Low in 1991	Average Low in 1966	Average Low in 1941	Average Low in 1916

Weather Project--Summary

Now that you have collected your data, it is time to analyze what you found and make some conclusions about why different parts of the US have different weather patterns. In your paper, you will have to...

- 1.