

It's a Matter of Degrees

A common joke in the San Francisco Bay area is that if you don't like the weather, then walk a few blocks. The region has microclimates where the weather conditions are very different depending on your location. In this activity, you will examine the temperatures for different locations in the Bay area. The table shows the high temperatures for four cities on August 8, 2017. Examine the data and the map and answer the questions below.

San Francisco	64°C
Hayward	71°C
Livermore	85°C
Manteca	94°C



Google Maps

1. San Francisco and Manteca are about 75 miles apart. What is the temperature difference between the two cities?
2. Do you observe a trend in the temperatures for these four cities? Describe the trend that you observe.
3. Why do you think the temperatures are different in these cities? What is the factor that influences the temperature?
4. Turlock is about 30 miles south of Manteca. Can you predict what the temperature would be in Stockton? What is your reasoning?