The Cycle of the Seasons 1: Temperature

Step 1: Collecting Temperature Data

In an Excel document, create a spreadsheet of the average temperature in Hartford CT over the course of a year. You can find this data at the ClimateZone web site at http://www.climatezone.com/. Locate the Hartford climate data and refer to the line that is labeled "Avg Temperature."

Month	Temperature (°F)
Jan.	?
Feb.	?
March	?
April	?
May	?
June	?
July	?
Aug.	71.6
Sept.	?
Oct.	?
Nov.	?
Dec.	?

Step 2: Graphing Temperature Data

Make a three-year scatter plot of this data. Make an appropriate graph title, label your axes, and shut off the legend. Resize the graph so it is legible. Copy the graph to a Word document and answer the following questions:

- 1. Describe the shape of your scatter plot.
- 2. Where else have you seen this shape?
- 3. Explain what might cause the average temperature to follow this pattern.
- 4. According to the data, the average temperature in August is 71.6°F. That sure doesn't sound like beach weather! How is the average monthly temperature calculated?
- 5. Examine the temperatures for the most recently completed month at http://www.accuweather.com/en/us/hartford-ct/06105/march-weather/327356?view=table . Calculate the average monthly temperature.
- 6. Compare this to your graph. How much warmer or cooler than normal was last month?