Directions: You will be assigned two cities weather to compare. You will complete the table below to observe how weather patterns differed in the Southern and Northern Hemisphere during the month of February. You will record the high and low temperature for the day and the weather description (rainy, cloudy, sunny, etc.) After you have collected all of the data, you will analyze the weather of two cities by making comparison graphs. www.weather.com

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Northern Hemisphere City  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |  | Southern Hemisphere City  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |
| High Temp. (°F) | Low Temp. (°F) | Description | Date | High Temp. (°F) | Low Temp. (°F) | Description |
|  |  |  | 2/1/16 |  |  |  |
|  |  |  | 2/2/16 |  |  |  |
|  |  |  | 2/3/16 |  |  |  |
|  |  |  | 2/4/16 |  |  |  |
|  |  |  | 2/5/16 |  |  |  |
|  |  |  | 2/6/16 |  |  |  |
|  |  |  | 2/7/16 |  |  |  |
|  |  |  | 2/8/16 |  |  |  |
|  |  |  | 2/9/16 |  |  |  |
|  |  |  | 2/10/16 |  |  |  |
|  |  |  | Average |  |  |  |

Graphical Analysis: (Make sure to label your axes and create a key in order to differentiate the two cities.)

High Temperature Comparison by Day Low Temperature Comparison by Day

|  |  |  |
| --- | --- | --- |
|  |  |  |

Analysis

1. Looking at your graphs, what was the general temperature trend for each of your cities (increasing, decreasing, constant, etc.)?

Northern Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Southern Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What was the general weather like for each of your cities (sunny, cloudy, rainy, etc.)?

Northern Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Southern Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Looking at your graph, what might you predict the next week forecast will look like for each city?

Northern Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Southern Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What season do you believe each city is in based upon the weather conditions?

Northern Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Southern Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. If Jainville, experiences high temperature of 80°F in January, what hemisphere would you predict Jainville is in? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Why do you think the Northern and Southern Hemisphere go through opposite seasons?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. On the globe, highlight the line that separates the Northern and Southern Hemisphere. Label each hemisphere and label the season each is in during the month of **July.** Plot the location of your cities.

