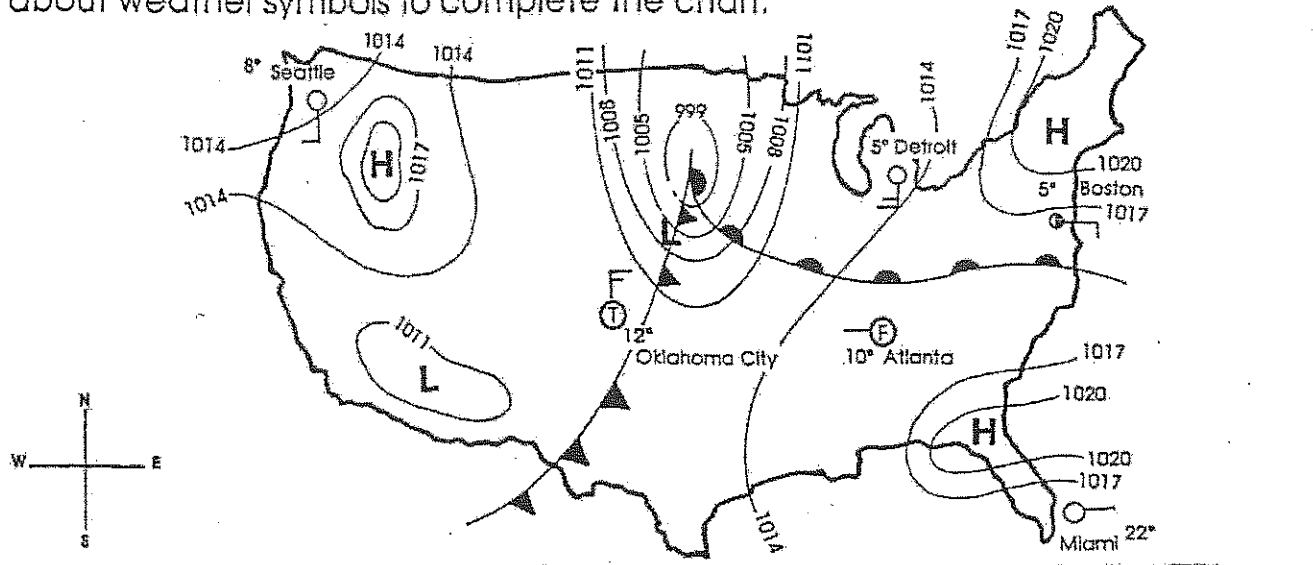


# Using a Weather Map

Name \_\_\_\_\_

Weather maps show the recorded weather conditions over a large geographical area. Use the map shown on this page along with what you have learned about weather symbols to complete the chart.

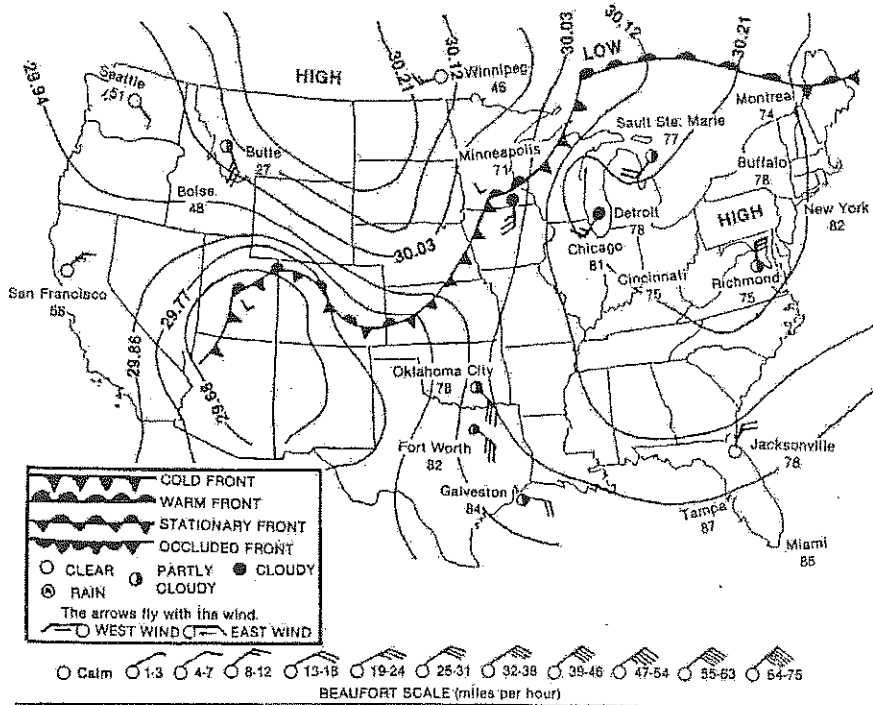


|  |                |  |               |                      |      |  |       |           |       |                   |           |  |        |
|--|----------------|--|---------------|----------------------|------|--|-------|-----------|-------|-------------------|-----------|--|--------|
|  | Cold front     |  | Partly cloudy | Temperature (°C)     |      |  |       |           |       |                   |           |  |        |
|  | Warm front     |  | Snow          |                      |      |  |       | West Wind |       | Direction of Wind | East Wind |  |        |
|  | Occluded front |  | Fog           | Wind velocity (Km/h) |      |  |       |           |       |                   |           |  |        |
|  | Clear          |  | Hurricane     |                      |      |  |       |           | 0-1   |                   | 13-18     |  | 39-50  |
|  | Rain           |  | Cloudy        |                      | 2-5  |  | 19-28 |           | 51-61 |                   | 62-74     |  | 88-101 |
|  | Thunderstorm   |  | Freezing rain |                      | 6-12 |  | 29-38 |           | 62-74 |                   | 88-101    |  |        |

| City             | Temp. | Cloud Cover/<br>Weather<br>Condition | Wind<br>Velocity | Wind<br>Direction |
|------------------|-------|--------------------------------------|------------------|-------------------|
| Seattle          |       |                                      |                  |                   |
| Atlanta          |       |                                      |                  |                   |
| Detroit          |       |                                      |                  |                   |
| Miami            |       |                                      |                  |                   |
| Oklahoma<br>City |       |                                      |                  |                   |
| Boston           |       |                                      |                  |                   |

# Reading a Weather Map

Use the weather map on this page to answer the questions and follow the directions below. Circle the cold front blue, the warm front red, and the stationary front green. Draw red arrows to show in what direction the warm front is moving and blue arrows to show the cold front's direction.

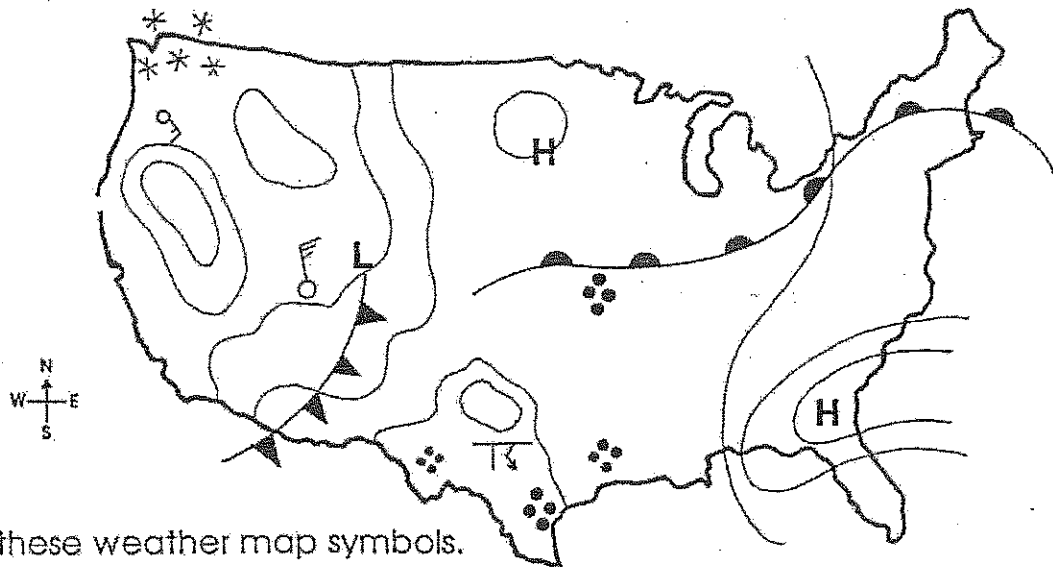


- What are the warmest places on the map? \_\_\_\_\_  
Coldest? \_\_\_\_\_
  - What cities have the highest barometric air pressure? \_\_\_\_\_  
What is it? \_\_\_\_\_
  - What do you think Chicago's weather might be tomorrow? \_\_\_\_\_  
Why? \_\_\_\_\_
  - From what direction and at what speed is the wind blowing in the following cities?  
San Francisco \_\_\_\_\_ Winnipeg \_\_\_\_\_ Seattle \_\_\_\_\_  
Richmond \_\_\_\_\_ Jacksonville \_\_\_\_\_ Minneapolis \_\_\_\_\_
  - What is the lowest barometric pressure on the map? \_\_\_\_\_ Why is it low where it is? \_\_\_\_\_
  - What cities are partly cloudy? \_\_\_\_\_
  - What do Boise and Galveston have in common? \_\_\_\_\_
  - Draw the symbol to show each wind speed below.  
east 6 mph \_\_\_\_\_ west 28 mph \_\_\_\_\_ east 54 mph \_\_\_\_\_
- Cut out a weather map from your newspaper. Interpret it on another sheet of paper. Draw what you think the map will look like in the next day's paper. Cut out weather maps for a week and see how accurate they are.

# Weather Map Symbols

Name \_\_\_\_\_

Weather maps, like the one on this page, provide data from which meteorologists prepare weather forecasts. To accurately read a weather map you must be able to understand the weather map symbols.



Label each of these weather map symbols.

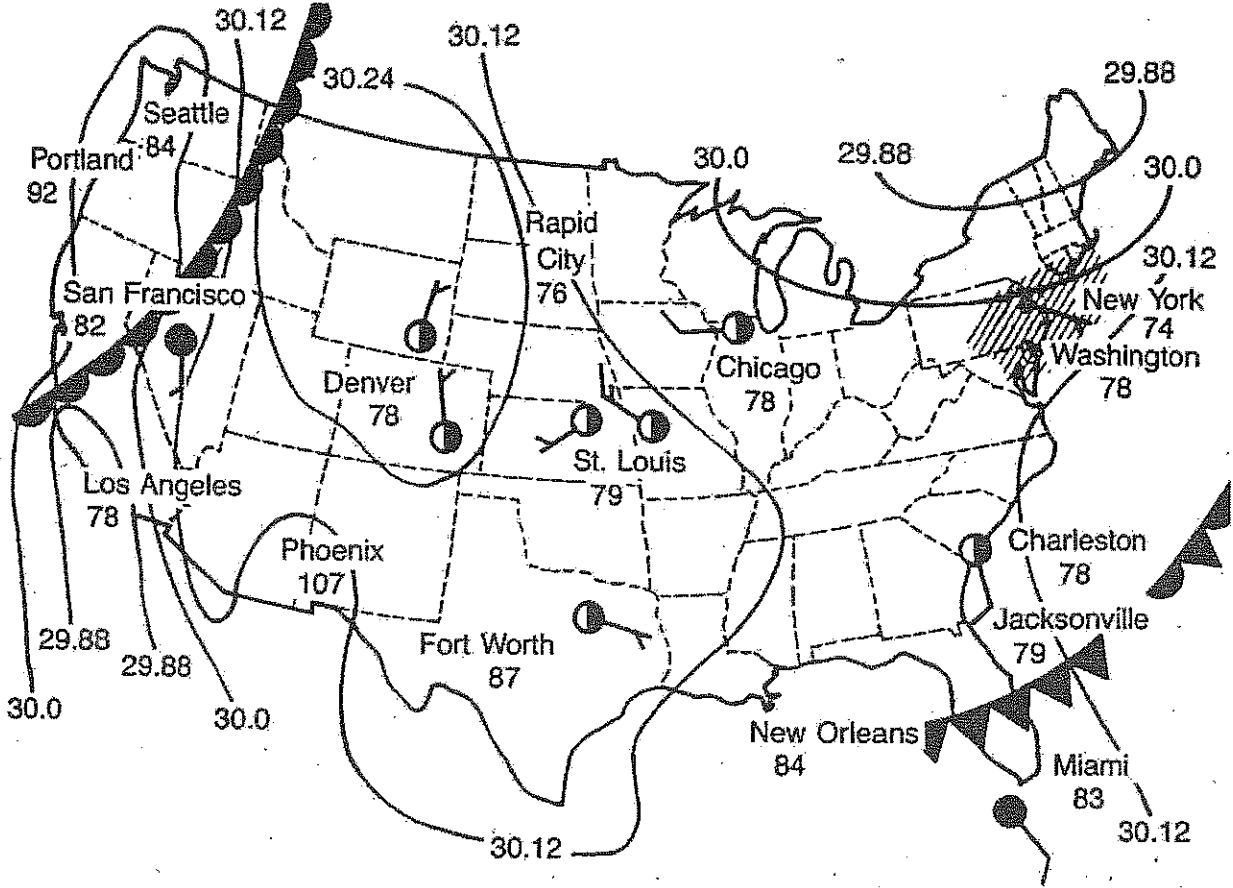
|  |       |  |       |
|--|-------|--|-------|
|  | _____ |  | _____ |
|  | _____ |  | _____ |
|  | _____ |  | _____ |
|  | _____ |  | _____ |
|  | _____ |  | _____ |
|  | _____ |  |       |
|  | _____ |  |       |
|  | _____ |  |       |

## WORD BANK

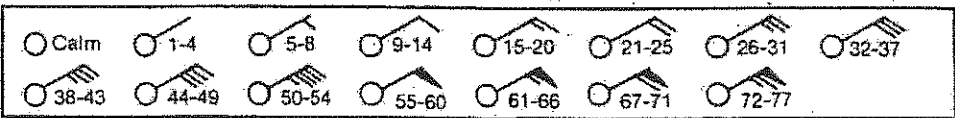
- |                          |               |                  |                |
|--------------------------|---------------|------------------|----------------|
| rain                     | clear skies   | thunderstorm     | cloudy         |
| snow                     | partly cloudy | cold front       | occluded front |
| high pressure            | warm front    | stationary front | low pressure   |
| wind speed and direction |               |                  |                |

# Weather Map

Complete the chart by interpreting the symbols on the map.



### Wind Scale (mph)



|                |  |
|----------------|--|
|                |  |
|                |  |
|                |  |
|                |  |
|                |  |
|                |  |
|                |  |
|                |  |
| WIND DIRECTION |  |
|                |  |

| Weather Elements     | San Francisco | Miami | Fort Worth |
|----------------------|---------------|-------|------------|
| Temperature (°F)     |               |       |            |
| Sky conditions       |               |       |            |
| Direction of wind    |               |       |            |
| Speed of wind (mph)  |               |       |            |
| Atmospheric pressure |               |       |            |