

Weather or Not

Weather Science

Name _____

Date _____ Period _____

Purpose

To explore weather maps in order to understand what causes the weather.

Instructions

These weather maps are from a day in early March. Use them to look for relationships between and among the factors that affect the weather.

Part I: Weather Variables

- Describe the type of information is given on each of the six weather maps?

Temperature Highs:

Cloud Cover:

Precipitation:

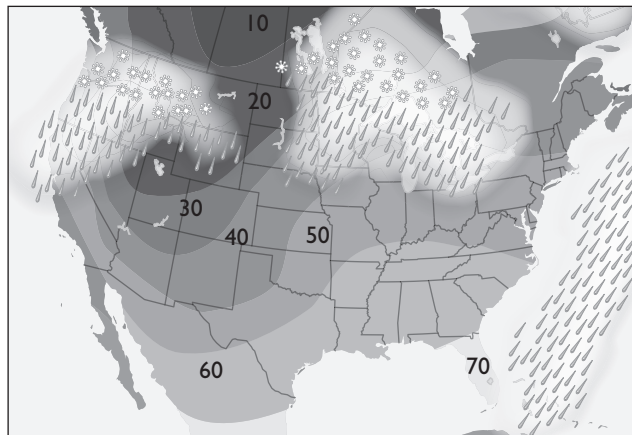
Jet Stream:

Fronts:

Air Pressure:

- Describe the weather according to your maps in the locations listed here. Include the temperature, cloud cover, and precipitation.

a. Pacific Northwest



b. Southeastern United States

c. Great Lakes region

- Place the weather map transparencies on top of each other to compare more than one variable. List at least six patterns you notice.

Example: Where there are H's there are no clouds.

Part 2: Analysis

1. In the jet stream, air moves swiftly generally from west to east at high altitudes across the United States. How is the weather north of the jet stream different from the weather south of the jet stream?
2. Name a state where it may rain tomorrow. Provide your reasoning.
3. Describe in your own words what you think a front is.
4. What specific weather patterns are associated with the H's and L's on the map?
5. **Making Sense** Use the weather maps of the United States to forecast the weather for your hometown or a location specified by your teacher. List the current conditions along with your forecast for the next day.
6. **If You Finish Early** Which of the maps can you use to decide whether it is a sunny day in a certain place? Explain your thinking.