

Lesson 1: Why Are Temperatures Different?

Activity 1.1

Purpose

The purpose of this activity is to see how temperatures differ in different parts of the country.

Word Wall Words

Temperature: _____

Isotherm: _____

Procedure

1. You will need to assign colors for the temperatures in the key. Look at the highest and lowest temperatures on the map. Cross out the ranges in the key that are not represented on the map.
2. Next choose a color for each temperature range in the key. It is common to use cool colors such as blue for low temperatures and warm colors such as red for high temperatures.
3. Shade each temperature recorded on the map the appropriate color.
4. Starting with the highest temperatures, add smooth lines to contain regions of similar temperature. Shade the entire area the color for that temperature range.
5. Repeat the process for the next temperature range down. As you add lines and shade regions remember these rules.
 - a. Isotherm lines never cross each other.
 - b. Shaded regions that are not next to each other on the key will not touch each other on the map.
 - c. There will never be a place where three or more colors meet each other.
6. When you have completed the map, answer the following questions

Analysis

What date was this data collected? _____

What time was it in Arlington Heights when this data was collected? _____

What is the general pattern that temperatures tend to fall in in the United States? _____

Why do you think this happens? _____

Your Progress:

- Mastery
- Proficient
- Developing
- Beginning