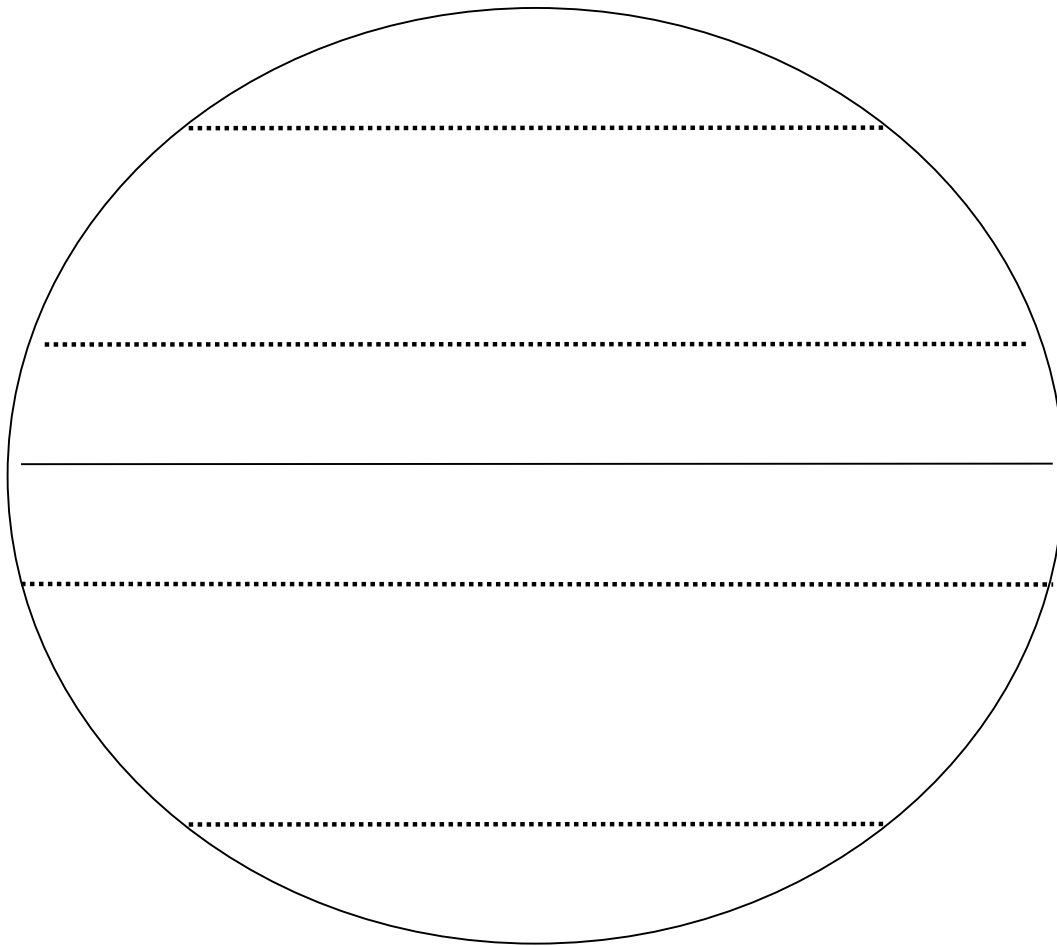


Name:

## Important Latitude Lines and Climate Regions

**Climate** is the term for weather patterns that an area typically experiences over a long period of time. **Weather** is the day-to-day temperature and precipitation. What is the weather today?  $87^{\circ}$  and dry or  $23^{\circ}$  and snowing. You are going to learn to determine the climate of a location by finding its latitude line.

The diagram below shows the locations of important latitude lines on the Earth. Follow the steps below to label the diagram.



Step 1: Label each important latitude line on the diagram of the Earth above.

North Pole ( $90^{\circ}$ N)	South Pole ( $90^{\circ}$ S)	Equator ( $0^{\circ}$ )	Arctic Circle ( $66^{\circ}$ N)
Antarctic Circle ( $66^{\circ}$ S)	Tropic of Cancer ( $23\frac{1}{2}^{\circ}$ N)	Tropic of Capricorn ( $23\frac{1}{2}^{\circ}$ S)	

Step 2: Use red to shade in the **tropical region**. Label the region. The area between the Tropic of Cancer and the Tropic of Capricorn receives direct sunlight. The climate in the area between these two latitude lines is known as the tropical region. Most places in the tropics are hot year-round.

Step 3: Use green to shade in the **temperate regions**. Label the regions. The region between the Tropic of Cancer and the Arctic Circle is known as the temperate region. The region between the Tropic of Capricorn and the Antarctic Circle is also known as the temperate region. There are four seasons in the temperate region.

Step 4: Use blue to shade in the **polar regions**. Label the regions. The region between the Arctic Circle and the North Pole and the Antarctic Circle and the South Pole is known as the polar region. Because sunlight strikes here very indirectly, the sun's rays are spread out over a wide area. Polar climates are always cool or bitterly cold.

**Applying Your Skills:** Using a classroom atlas, complete the chart:

City	Degree of Latitude	Climate Region
San Diego		
Fairbanks		
Murmansk		
Addis Ababa		
Cape Town		
Algiers		
Ha Noi		
Mumbai		
Darwin		

## Traveling to a Climate Region:

You and your partner will receive a slip of paper from your teacher. Using the slip of paper, answer the following questions in complete sentences.

- a. What is your assigned location?
- b. What is the degree of latitude?
- c. What is the climate region?
- d. Draw three colorful & detailed items in the suitcase that you would pack for a trip to your assigned location. Make sure that the items that you draw relate directly to the climate of the area.

