

Using Latitude and Longitude

Purpose: To identify cities based on latitude and longitude information

Materials: Earth Science Reference Tables, ruler

Procedure:

- I. On the *Tectonic Plates* map, place a dot at the correct location for each of the following cities. Label the points with the name of the city.

City	Coordinates
New York	41° N, 74°W
Moscow	56°N, 38°E
Perth	32°S, 116°E
Nairobi	1°S, 37°E
Lisbon	39°N, 9°W

- II. Use the *Generalized Bedrock Geology of New York State* map on page two of your reference tables to complete the following table. Use minutes to express fractions of a degree:

City	Coordinates
Elmira	
Syracuse	
Plattsburgh	
Kingston	

Conclusion:

1. Is it possible for a city to be located at 120°S, 30°W? Explain

2. With your ruler, measure 1° longitude, in centimeters, near Long Island on page three of your reference tables. Measure 1° longitude, in centimeters near Massena.

3. Explain why the distances found in question 2 are different.

Tectonic Plates

