

Name: \_\_\_\_\_

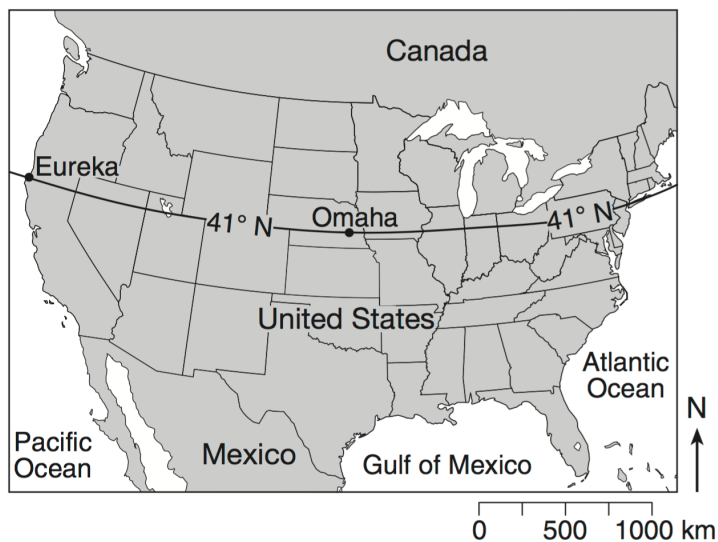
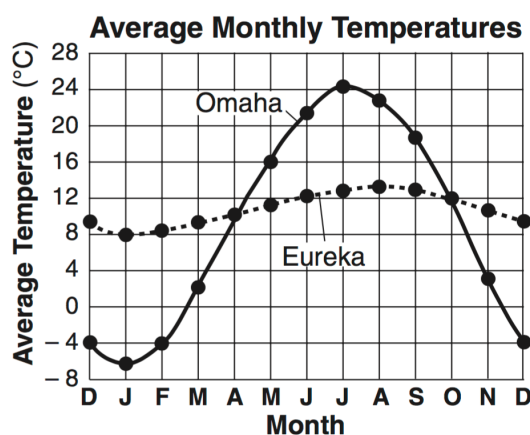
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# Water and Climate

The Physical Setting: Earth Science

## Supplemental: Climate Variables

**Directions:** Base your answers to questions 1 through 4 on the graph and map below and on your knowledge of Earth science. The average monthly temperatures for Eureka, California, and Omaha, Nebraska, are plotted on the graph. The map indicates the locations of these two cities.



1. Calculate the rate of change in the average monthly temperature for Omaha during the two-month period between October and December, as shown on the graph.
2. Explain why Omaha, which is farther inland, has a greater variation in temperatures throughout the year than Eureka, which is closer to the ocean.
3. Identify the month with the greatest difference in the average temperature between these two cities.
4. Identify the surface ocean current that affects the climate of Eureka.