

Area/Skill - Interdisciplinary	Cognitive Skill Level - Application/Analysis/Evaluation	Correlation to Framework - 01.05/03.03/03.06/05.09	Lesson # 7
<p>Activity Title - What's Your Temperature?</p> <p>Goal/Objective</p> <p>To interpret a weather map from the local newspaper and produce a relevant writing sample.</p> <p>Lesson Outline Introduction</p> <p>Discuss how newspapers are a valuable resource to learn about math, social studies, science, and writing concepts. One example is the use of a weather map. Discuss how many newspapers have weather maps of the United States that include such information such as average temperatures, rainfall, latitude and longitude coordinates, and even forecasts.</p> <p>Activity</p> <p>Divide the class into groups. Provide each group with a newspaper that includes a weather map. Have the group locate different temperatures throughout Florida. Show the students how to find the mean, median, and mode of the temperatures. Provide practice in these types of calculations. Next, give students a world map. Have them locate the longitude/latitude of a given city in Florida. Then provide them with the name of a city near the equator and one near the Canadian border. Have them locate the longitude/latitude of those cities, as well as the temperatures.</p> <p>Have the students write a short paper comparing and contrasting the differences in temperature and longitude/latitude of the three cities.</p> <p>Debriefing/Evaluation Activity</p> <p>Have students share their discoveries with the class. Discuss how latitude and longitude can be predictors of temperature.</p>		<p>Materials/Texts/Realia/Handouts</p> <ul style="list-style-type: none"> • Paper and pencils • Newspaper • Weather and world maps • Chart paper/board and markers • Internet access • Calculators 	
<p>Real-Life Connection</p> <p>Many people read the newspaper every day. The newspaper is an important source of information. Have students brainstorm the different types of information that they generally obtain through reading the newspaper. Write their ideas on the board.</p>		<p>Extension Activity</p> <p>Have students plot the mean/median/mode for the next day's temperatures or for different states or regions.</p> <p>ESE/ESOL Accommodations</p> <p>Have students work in small groups.</p> <p>Provide students with written definitions of the different terms, as well as the formulas for mean/median/mode.</p> <p>Highlight important information on the maps.</p> <p>Let students use a graphic organizer to identify similarities and differences in the three cities.</p>	

GED 2002 Teachers' Handbook of Lesson Plans

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Activity Title - What's Your Temperature?

Introduction

Ask: How many of you watch the weather report on television or check the weather map in the newspaper? Do you ever check what type of weather is occurring in other parts of the United States?

Say: The newspaper is a great resource to learn different things about science, social studies, language arts, and math. Even a simple weather map can be a source for many types of information.

Main Activity

Say: Today, we are going to check out the weather. Get into small groups. Each of your groups will look at the weather map in today's paper. Locate the temperature for our area of Florida. *Ask:* Does this map provide a five-day forecast? This kind of information allows us to predict what the upcoming week will be like. By using this information, we can also figure some basic statistics such as mean, median, and mode.

Define the terms mean, median, and mode for the class. Have them figure each of the measures of central tendency for the five-day forecast. You may wish to have them also identify different cities in Florida and calculate the mean, median, and mode for those sites.

Say: Now that you are comfortable in reading a weather map, let's look at a map of the world.

Define the terms latitude and longitude for the class. Have them locate specific cities by their latitude and longitude. *Ask:* Does anyone see a connection between a city's latitude and longitude and the temperature in that city?

Provide students with a city along the equator, one on the Canadian border, and one in Florida. Using the world map and the weather map, have the students write a short paper comparing/contrasting the connection between latitude/longitude and temperature.

Debriefing/Evaluation Activity

Have the students share their findings regarding latitude/longitude and temperature with the class. Students may wish to research the effects of latitude/longitude on climate.

Follow-up Lessons/Activities

Brainstorm different ways in which the newspaper can be a good source of information if read on a regular basis. Write the students' ideas on the board.