Tornadoes' Favorite Counties

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Overview

Students will use a South Carolina County map found in *SC: An Atlas* to determine location of tornadoes and/or hurricanes from 1985 to 1995. Students will create map symbol and maps showing the location of tornadoes and hurricanes in the state during this time period. Students will then analyze the data.

Connection to the Curriculum

The lesson connects to weather, geography, math, and language arts.

South Carolina Social Studies Academic Standards

2-2.1 Locate on a map the places and features of the local community, including the geographic features and the urban, suburban, and rural areas.

Social Studies Literacy Elements

- F. Ask geographic questions: Where is it located? Why is it there? What is significant about the location? How is its location relates to that of other people, places and environments?
- H. Construct map, graphs, tables, and diagrams to display social studies information.
- I. Use maps to observe and interpret geographic information and relationships.

Grade Range

2nd through 5th grade

Time

30 - 40 minutes for graphing one or two categories.

Materials Needed

South Carolina: An Atlas County map of South Carolina Table of extreme weather (Provided with lesson plan) Colored pencils or Different colors of construction paper or Different colored self- stick shapes of foam

Objectives

- 1. Students will determine how to represent data from the table on the county map.
- 2. Students will create a map key and place data on county map.
- 3. Students will interpret the information and share with the class.

Suggested Procedures -2^{nd} grade

- 1. Give students the objective for the lesson create a map displaying the data of how many tornadoes struck in each of the counties according to the table provided.
- 2. Group students (in second grade I usually use groups of two students).
- 3. Pass out map and Data Sheet (highlight information you want students to use).
- 4. Decide that one sticky foam circle equals 2 tornadoes. Use an additional ¹/₂ circle on top to represent odd numbers.
- 5. Place different colored foam circles inside the county on the map.
- 6. Students make and put key on their map.
- 7. On bottom of map students write at least 3 observations about their map and one question about the information depicted.
- 8. Students share their map and observations (Students may not repeat information from another group they either have to give new information or add to information that has already been presented).

Suggested Procedures- $3^{rd} - 5^{th}$ grade

- 1. Objective for lesson could be different groups displaying different climate extremes with an additional column example: Tornadoes and injuries or Lightning and injuries.
- 2. Assign groups the extreme climate they will be mapping.
- 3. Pass out map and data sheet with highlighted information for mapping.
- 4. Students decide how to represent the information, what material they use and create map key.
- 5. Students place information on their maps.
- 6. Students write at least 3 observations about their data on the bottom of the map.
- 7. Students share their maps and information see above.
- 8. Students add three more observations from the other maps on the back of their map.
- 9. Students discuss what other maps they could create and where they could find the data.

Lesson Extensions

- 1. Use the Population Maps on page 29 of *SC: An Atlas* and compare where most tornadoes or hurricanes took place interpret the information.
- 2. Use the Contemporary Agriculture map on page 33 of *SC: An Atlas* and explain effect of extreme weather in different counties.
- 3. Use the Manufacturing Map on page 32 of *SC: An Atlas* and explain the effects extreme weather has on manufacturing in different counties. Example would you build a factory in a county with many tornadoes/hurricanes? Why or why not?
- 4. Have students evaluate and discuss the influence extreme weather may have on population, locations of manufacture or agriculture

Suggested Evaluation

Observation and presentation of interpretation

Resources

South Carolina: An Atlas Produced and distributed by the South Carolina Geographic Alliance 1-888-895-2023 www.cas.sc.edu/cege

http://www.fema.gov/hazards/tronadoes

http://www.dnr.state.sc.us/climate/sco/

Background Information

Before this lesson the students should have learned about tornadoes or other extreme weather conditions.

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