

# Weather Patterns Activity Guide

**Lesson:** Weather Patterns – Interpreting Weather Scenario Cards

**Florida Benchmark:**

**SC.5.E.7.5** – Recognize that some of the weather-related differences, such as temperature and humidity, are found among different environments, such as swamps, deserts, and mountains.

**NGSS Standard:**

**5-ESS2-1** – Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.

**Objective:**

Students will analyze a simulated weather scenario based on environmental conditions and represent weather patterns using simple graphs and visual symbols.

**Materials:**

- Weather Scenario Cards (1 per group)
- Chart or graph paper
- Colored pencils or markers
- Ruler
- Pencil and eraser
- Weather icons chart (optional for visual support)

**Safety Precautions:**

Be respectful with all materials. Use scissors, rulers, or drawing tools properly. Stay with your group and work cooperatively. No need for hazardous materials in this activity, but always follow classroom rules and keep your workspace neat.

**Procedures:**

1. **Group Assignment:**  
Your teacher will divide the class into small groups and give each group a Weather Scenario Card.
2. **Scenario Reading:**  
Read your weather card carefully as a group. Highlight or underline important details such as temperature, humidity, air mass, and location.
3. **Data Prediction:**  
Based on the scenario, decide what the temperature, humidity, and precipitation might look like over a 3-day period. Fill in a data chart or log with these predictions.

4. **Graphing the Weather:**

Use graph paper to create a bar or line graph to show temperature and/or precipitation over three days. Add drawings or symbols (sun, clouds, snow, etc.) to visually show the conditions.

5. **Weather Summary:**

Write a short summary (3–4 sentences) explaining what kind of weather your location is experiencing and why it happens in that environment.

6. **Class Presentation:**

Your group will share your weather data, graph, and summary with the class. Listen to others and compare how different environments have different weather patterns.

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**Note: Clean-Up**

After presentations, return all shared materials neatly. Throw away scraps and put away rulers, pencils, and papers properly. Make sure your area is clean for the next activity!