

Name _____ Date _____



Local Forecast

Procedure

1. **Collaborate** Work in groups of 3 or 4. Record your observations in the chart below.

	My Weather Prediction	Newspaper Weather Forecast	Actual Weather
Temperature			
Precipitation			
Wind			
Clouds			

2. **Measure** Set a barometer outside. Read it immediately and then again after one hour. Note whether the air pressure is rising, falling, or unchanged.
3. **Research** Look on the Internet and in reference books to learn about barometer readings. Find out what type of weather usually follows a rising or falling barometer reading. Predict the day's weather based on your barometer readings. Record your prediction in your chart.
4. **Analyze Data** Study a newspaper weather map and forecast. In your chart, record the newspaper's forecast.

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- 5. Measure** Set a thermometer and rain gauge outside in an open area. Check and record the temperature and the depth of any rain or snow that falls throughout the day. Also, record the cloud cover and wind conditions.

Conclusion

Write the answers to the questions below.

- 1. Compare** How did your weather prediction compare to the newspaper's weather forecast?

- 2. Analyze Data** Did the actual weather match the newspaper's forecast? Did it match your prediction? Explain.

Research Use the Internet, the library, and local sources to find out how weather scientists make your local weather forecast. Write a report about the instruments and tools they use.

Guided Inquiry