

Chapter 3

Use with Section 3

ENRICHMENT

● Forecasting Weather

Making Forecasts

Materials

Celsius thermometer
magnetic compass
aneroid barometer

Procedure

1. Make a chart like the one shown below to record your weather observations each day for 7 days. Be sure to make observations at the same time and place each day.
2. Determine the temperature by placing the thermometer in a shaded location.
3. Determine the air pressure using the aneroid barometer.
4. Estimate the amount of sky covered by clouds as clear, overcast, or somewhere in between.
5. Determine the types of clouds using Field Guide to Clouds in your textbook.
6. Use a compass to determine the direction from which the wind is blowing.
7. Describe the precipitation. Use the terms *rain*, *snow*, *sleet*, *hail*, *fog*, or *clear*.
8. Use the data you collect each day to forecast weather conditions for the following day. Note any trends you see in your observations, such as high cirrus clouds preceding rainy weather.

Date	Temperature (°C)	Atmospheric pressure	% Cloud cover	Cloud types	Wind direction	Precipitation	Forecast

Conclude and Apply

1. Was there a relationship between low barometric pressure and the presence of clouds and precipitation? Explain. _____

2. How accurate were your forecasts for the next day? Give an explanation for any errors that may have occurred in your forecasting. _____

3. What weather observations can you make yourself? _____
