

Gathering Weather Data

Teacher Notes

You may have students monitor other conditions such as barometric pressure. They can use instruments they have already made or commercial instruments you have access to. You can have them use the Beaufort wind scale to estimate wind speed.

SKILLS ACQUIRED

Experimenting
Measuring
Observing
Analyzing

MATERIALS

- thermometer
- magnetic compass

SAFETY



PROCEDURE

1. Select an area outside your school building that is in the shade away from buildings and pavement.
2. Use a **thermometer** to measure the air temperature.
3. Estimate the percentage of cloud cover.
4. Estimate wind speed. Use a **magnetic compass** to estimate the wind direction.

ANALYSIS

1. What are the current weather conditions outside your school?
Answers will vary depending on conditions.
2. Using the data you collected, create a station model that describes the weather at your school.
Answers may vary but should use recognized weather symbols.

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