

Weather Stations and Weather Forecasts: Can You Do It Yourself?

Name: _____

Date: _____

Student worksheet

Word Bank

(when appropriate, use these words in your short answers)

- Air Pressure
- Humidity
- Precipitation
- Thermometer
- Anemometer
- Hygrometer
- Rain Gauge
- Wind Speed
- Barometer
- Meteorologist
- Temperature

DIRECTIONS: Complete each section below.

1. Discuss how **we** can forecast the weather. Write down or draw your best ideas.

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2. Connect each variable with the instrument that measures it.

Weather-related variable	Tool used to measure
Sky coverage	Windsock or weathervane
Temperature	Barometer
Humidity	Your eyes
Wind speed	Hygrometer
Wind direction	Thermometer
Air pressure	Rain gauge
Precipitation	Anemometer

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DIRECTIONS: Set up a weather station.

3. In the table below, circle the variables you measure with your weather station.

Fill in the unit in which they are measured.

Variable	Measurement Unit
Sky coverage	Not applicable
Temperature	
Humidity	
Wind speed	
Wind direction	Not applicable
Air pressure	
Precipitation	

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DIRECTIONS: Collect data.

4. In the table below, fill in the value for each variable that you measured on a particular day and time. Do not forget to add the units.

Fill in the date, time, and place you took these measurements in the top row.

Date: Time of day: Place:	
Variable	Value and unit
Sky coverage	
Temperature	
Humidity	
Wind speed	
Wind direction	
Air pressure	
Precipitation	

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DIRECTIONS: Graph the data.

5. Follow your teacher's directions to make at least one graph of the data.

DIRECTIONS: Analyze the data.

6. The teacher gave you a card with an "If... then..." statement.

Write the statement below.

If _____ then

_____ .

7. Check if this statement is true using the data the class collected. Below, write or draw how you perform this check.

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DIRECTIONS: Make a forecast.

8. In the first two columns of the table below, fill in how the weather is now. Do not forget to add the units.

Fill in the date, time, and place you took these measurements in the top row.

In the left column, fill in how you expect this variable to be in the future. Circle "a few hours" or "a day" to show the timeframe you are using for your predictions.

Date:		A few hours / a day later
Time of day:		
Place:		
Variable	Value and unit	Prediction
Sky coverage		
Temperature		
Humidity		
Wind speed		
Wind direction		
Air pressure		
Precipitation		

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9. Write down a script for your weather forecast.

Include at least three variables and how you think they will change.