

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

Name _____

Date: _____

Student quiz — *Answer key*

Directions: Indicate the correct answer(s) for each question below.

1. Which word does not fit in the list?

- a. Rain gauge
- b. Hygrometer
- c. Thermometer
- d. Precipitation
- e. Anemometer

Use following fact for questions 2 and 3:

If the sky is clear, then the temperature increases a lot during the morning.

2. Linda wants to see if the statement above is correct. What does she need to measure to find out?

- a. Rain gauge and temperature
- b. Air pressure and wind speed
- c. Temperature and sky coverage
- d. Temperature, air pressure, and sky coverage
- e. None of the above

Weather Stations and Weather Forecasts: Can You Do It Yourself? — Page 2

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Student quiz — *Answer key*

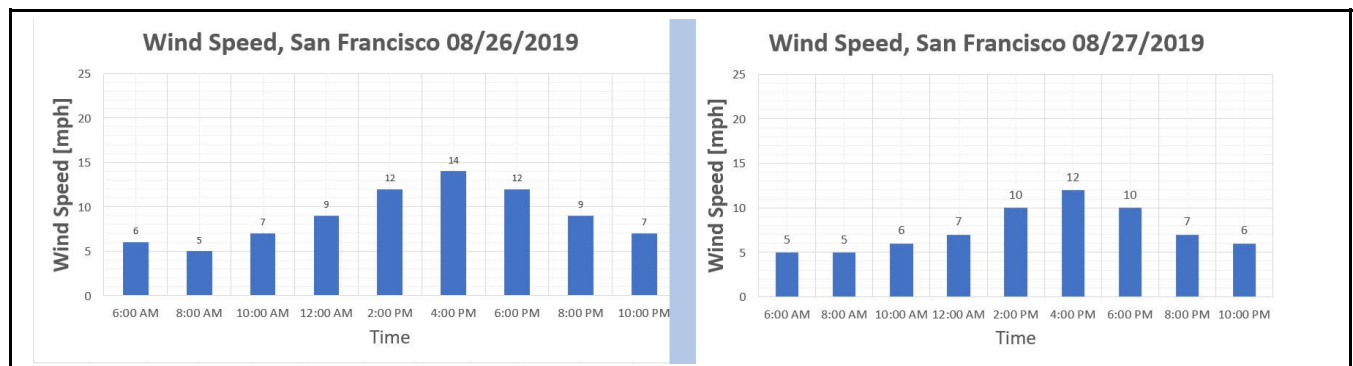
3. If Mike records the following data:

Measurement: 8:00 am, San Francisco	
Temperature	60 °F
Sky coverage	Clear sky
Precipitation	0 mm
Wind speed	4 mph

Using the statement above, what prediction can Mike make?

- a. It will be about 60 °F at noon
- b. It will be about 59 °F at noon
- c. It will be about 45 °F at noon
- d. It will be about 75 °F at noon
- e. None of the above

Use the graphs to answer question 4.



4. Seeing these graphs, Rick states the following patterns. Indicate the correct one.

- a. The wind speed does not change over the course of a day
- b. The wind slows down and then becomes stronger again
- c. The wind becomes stronger and then slows down again
- d. None of the above

Weather Stations and Weather Forecasts: Can You Do It Yourself? — Page 3

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Student quiz — *Answer key*

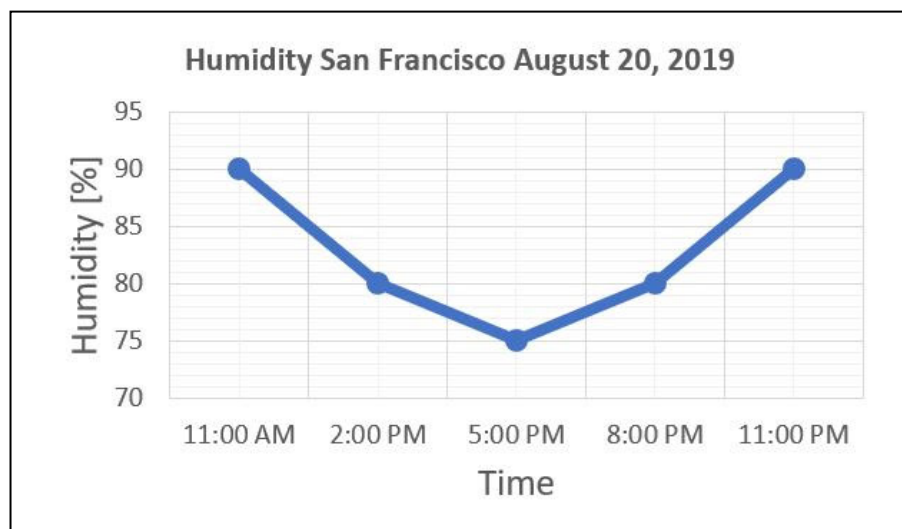
5. Mia collected the following data in her data table.

August 20, 2019 San Francisco	
Time	Humidity [%]
11 am	90
2 pm	80
5 pm	75
8 pm	80
11 pm	90

Graph her data. Remember to:

- name the axes
- include a title
- plot each data point

EXAMPLE ANSWER



This is an example graph. Your students might select a larger range for the y-axis, express the time differently, not connect the measured points with a line, or make a bar graph. These are all correct variations of this graph.