

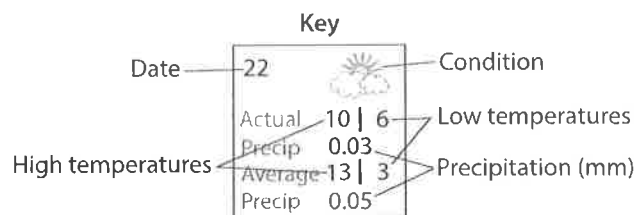
INVESTIGATION 4 I-CHECK

WATER AND CLIMATE

Name _____

Date _____

1. The chart below shows the weather for a week in October 2013 in Norman, Oklahoma.
(Temperatures are in °C.)



12		13		14		15		16		17		18	
Actual 23 7		Actual 31 13		Actual 30 18		Actual 23 16		Actual 21 15		Actual 22 15		Actual 31 17	
Precip 0.00		Precip 0.00		Precip 0.00		Precip 13.72		Precip 1.78		Precip 0.00		Precip 12.45	
Average 25 12		Average 24 13		Average 28 12		Average 28 12		Average 29 14		Average 29 15		Average 29 16	
Precip 0.38		Precip 0.48		Precip 0.36		Precip 0.48		Precip 0.30		Precip 0.41		Precip 0.43	

- a. Make a T-table to organize the information for one weather factor given in the chart (for example, the high temperatures for that week).

Make a bar graph, showing another way to organize the same data.

My T-table and bar graph will show _____.

Date	

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Item 1 (continued)

- b. Write **Y** (yes) next to each sentence that describes the difference between actual weather and average weather in Norman, Oklahoma, for the week shown on the weather chart on page 1.

Write **N** (no) next to each sentence that does not describe the difference between actual and average weather.

_____ The actual daily high temperature was colder than normal every day.

_____ The actual daily low temperature was colder on some days and warmer on other days.

_____ The rainfall was about the same as normal every day.

_____ The most common weather condition during the week was rain.

2. Mark an **X** next to the **three** most important weather conditions to look at when you want to describe typical weather in an area.

_____ Precipitation

_____ Sunrise and sunset

_____ High temperature

_____ Low temperature

_____ Wind direction and speed

3. One of the most important natural resources is water for drinking, cooking, and washing. Write a few words to describe things that can affect the safety of a local water source.

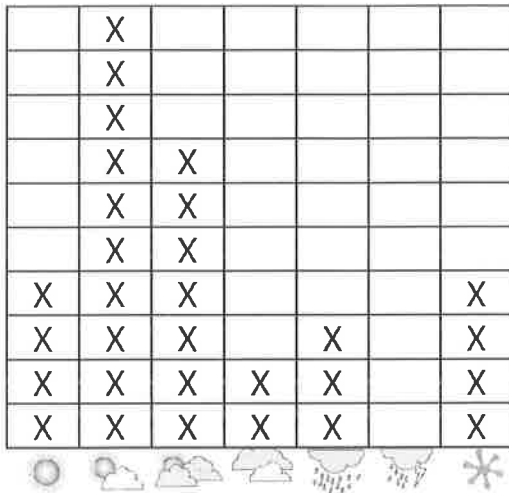
Name _____

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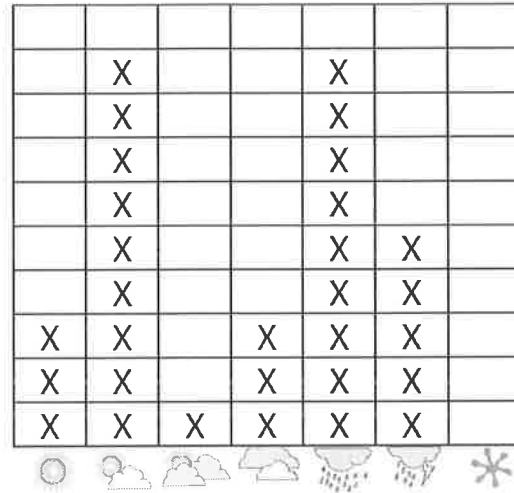
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4. Study the bar graphs shown here. They show the weather conditions for 2 months in Minneapolis, Minnesota. This is a state that has cold winters and warm summers.

Month A



Month B



Write **Y** (yes) next to each sentence that is supported by the data charts describing the weather in Minneapolis. Write **N** (no) next to each sentence that are not supported by the data.

- _____ Month A had fewer sunny days than month B.
- _____ The weather in month A was colder than in month B.
- _____ It was cloudier on more days in month A than in month B.
- _____ Month A is most likely January.
- _____ Month B is most likely December.

Name _____

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5. Scientists think about how long it takes for change to occur. A scientist might ask, “How long do I need to collect data in order to see the pattern I’m looking for?”

Complete the following sentences.

To describe the weather, data should be collected _____

To describe the climate, data should be collected _____

6. Big rainstorms, such as hurricanes, often cause rivers and streams to flood. The flooding can cause a lot of damage to property. Write about one thing that people can do to reduce the damage from flooding. Make sure to describe your solution in detail and explain how it could help.

Name _____

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7. This map shows the major climate zones in North America. Use this map to answer items on the next page.



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Item 7 (continued)

- a. Based on the map and what you have learned about climate, complete the sentences to predict the weather in the places named.

In January, the precipitation in Cuba is most likely _____.

☐ rain ☐ snow

In January, the precipitation in Canada is most likely _____.

☐ rain ☐ snow

- b. Based on the map and what you have learned about climate, in which place is the temperature most likely to remain about the same all year long?

(Mark the one best answer.)

☐ **A** New York City

☐ **B** Fairbanks

☐ **C** San Juan

☐ **D** Atlanta

- c. Which statement best explains the climate pattern you would expect to see in North America?

(Mark the one best answer.)

☐ **F** Places that are farther from the equator have a warmer climate.

☐ **G** Places that are closer to the equator have a warmer climate.

☐ **H** Places that are closer to the ocean are colder than places that are inland.

☐ **J** Places that are islands are warmer than places on the mainland.