Make a Thermometer to Study the Weather

Name: _____

Date: _____

Student worksheet

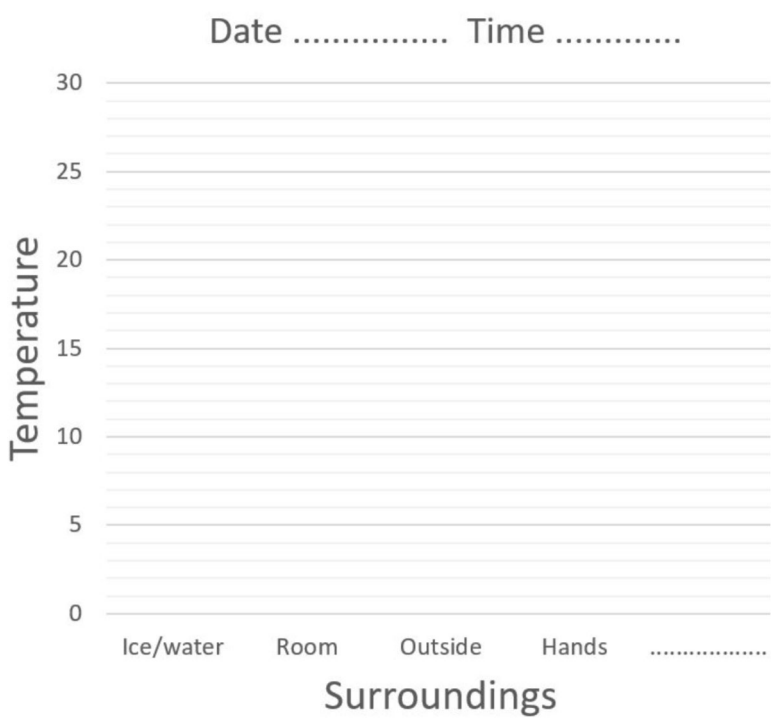
Directions: Record your data in the table below.

1. Use your thermometer to measure the temperature of several surroundings. List the measured values in Table 1. Use the last column for an additional location you measure.

Table 1	**Temperature measurements** **Date:** **Time:**				
Surrounding	Ice/water bath	Room	Outside	Hands	.....
Temperature	0				

Directions: Graph your data.

2. Use the graph template below to make a bar graph of the measurements listed in Table 1.



Make sure that:

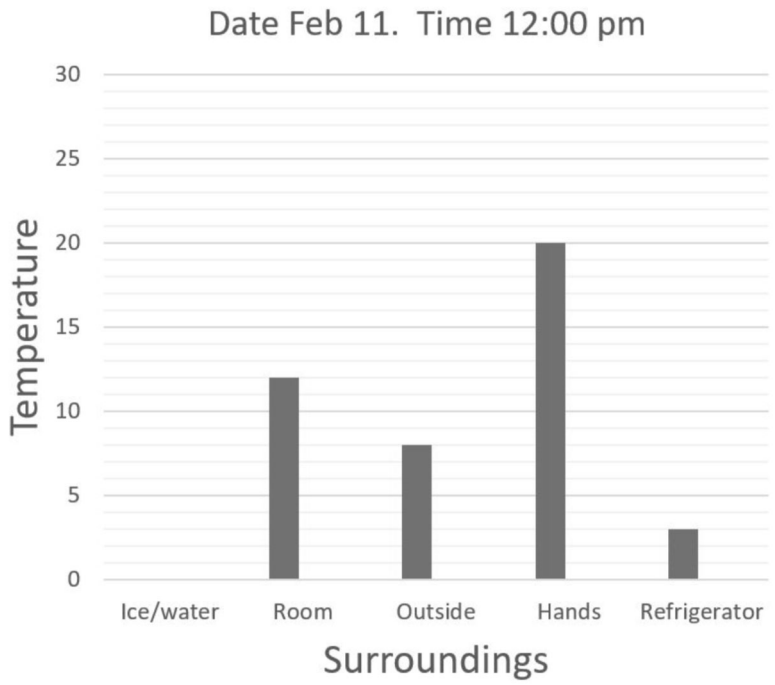
- ☐ The date and time are filled in.
- ☐ All measurements are included.

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Directions: Answer questions about the graphs.

3. Determine the temperature for “Hands” and “Outside” using the information provided in the graphs.

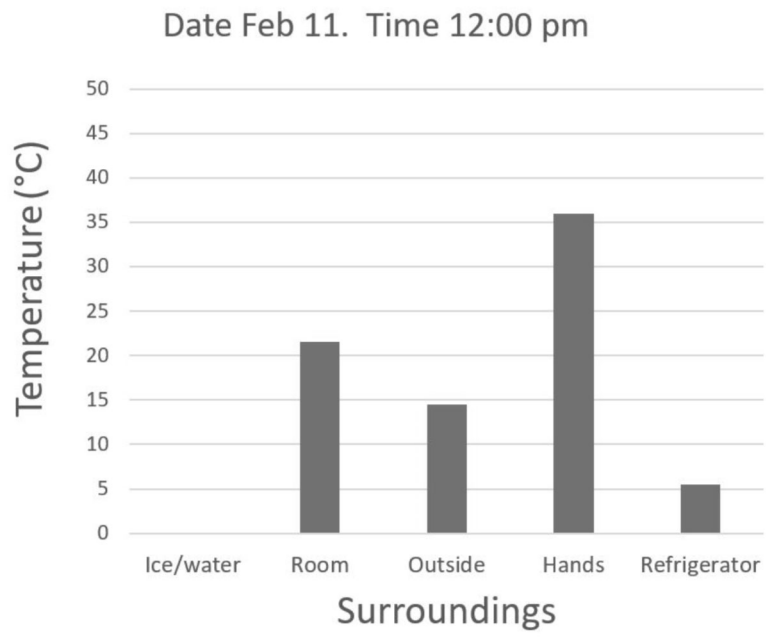


Example measurements taken with a **homemade thermometer**.

Read the temperature from the graph:

Hands: _____

Outside: _____



Example measurements taken with a **store-bought thermometer**.

Read the temperature from the graph:

Hands: _____

Outside: _____

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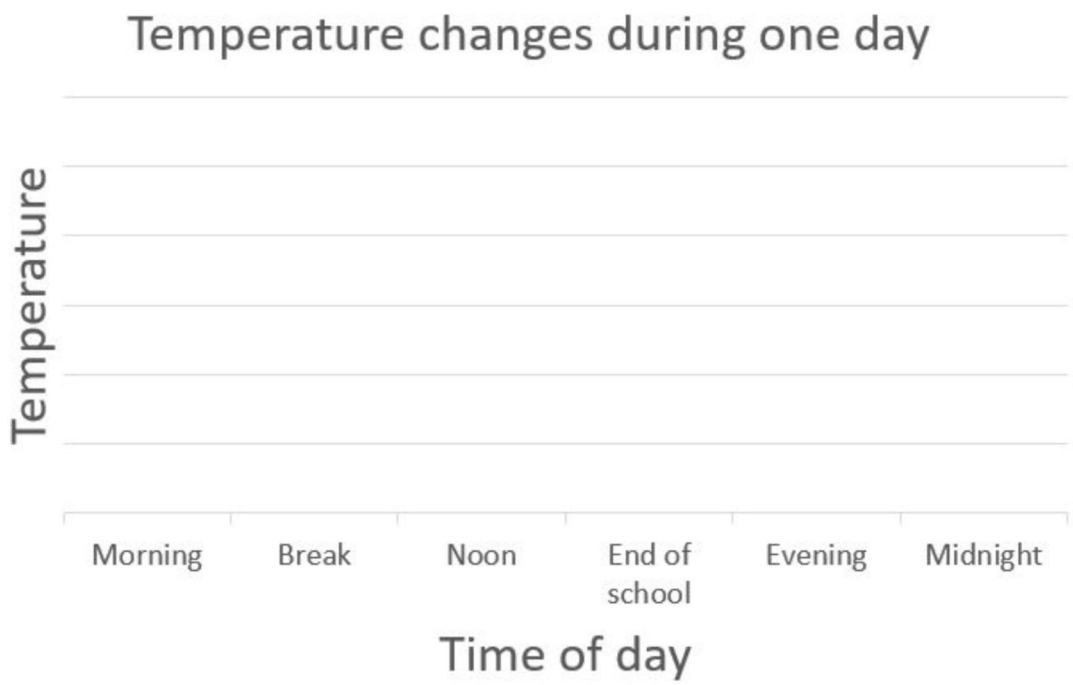
4. Answer the questions below about the graphs provided in step 3.

What do you notice about these graphs? How are they similar or different?

The measurement for “Hands” and “Outside” are different. Can both measurements be correct? Why or why not?

Directions: Graph your predictions.

5. In the template below, graph how you think the temperature will change over a day.



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6. Graph how you think the temperature will change over a year.

