

# A SAMPLE FROM

ELEMENTARY EARTH SCIENCE

# WHAT'S THE TEMPERATURE?

Activities to Introduce Thermometers and Measuring Temperature



Barbara Bannister

**2. Place** a student thermometer outside in a shaded location. Use an open plastic jar like a peanut butter jar as a safe container.

Send pairs of students outside to **record** the temperature. **Use the data to make a line graph** of the daily temperature recorded at the same time and in the same location each day (**PAGE 54 OR 55**).

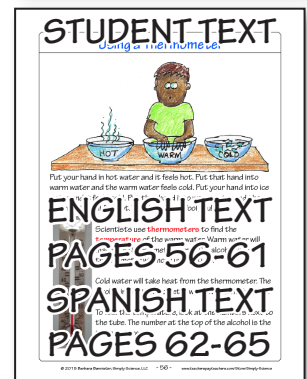
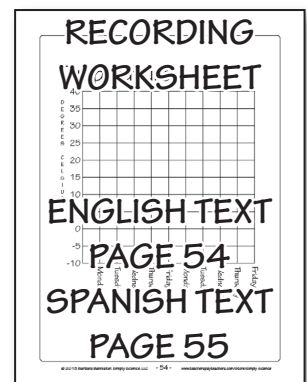


**Option:** Check the newspaper, television news, or an internet weather site to find the *expected temperature each day*. Add the predicted temperature to the graph using a different color.

**3. Read** about using a thermometer (**PAGES 56-61**).

**Option:** Listen to the text (**Audio 11-15**).

**Note:** If an even-numbered student text is given to students, consider having students color the alcohol 100° C for the boiling point of water.



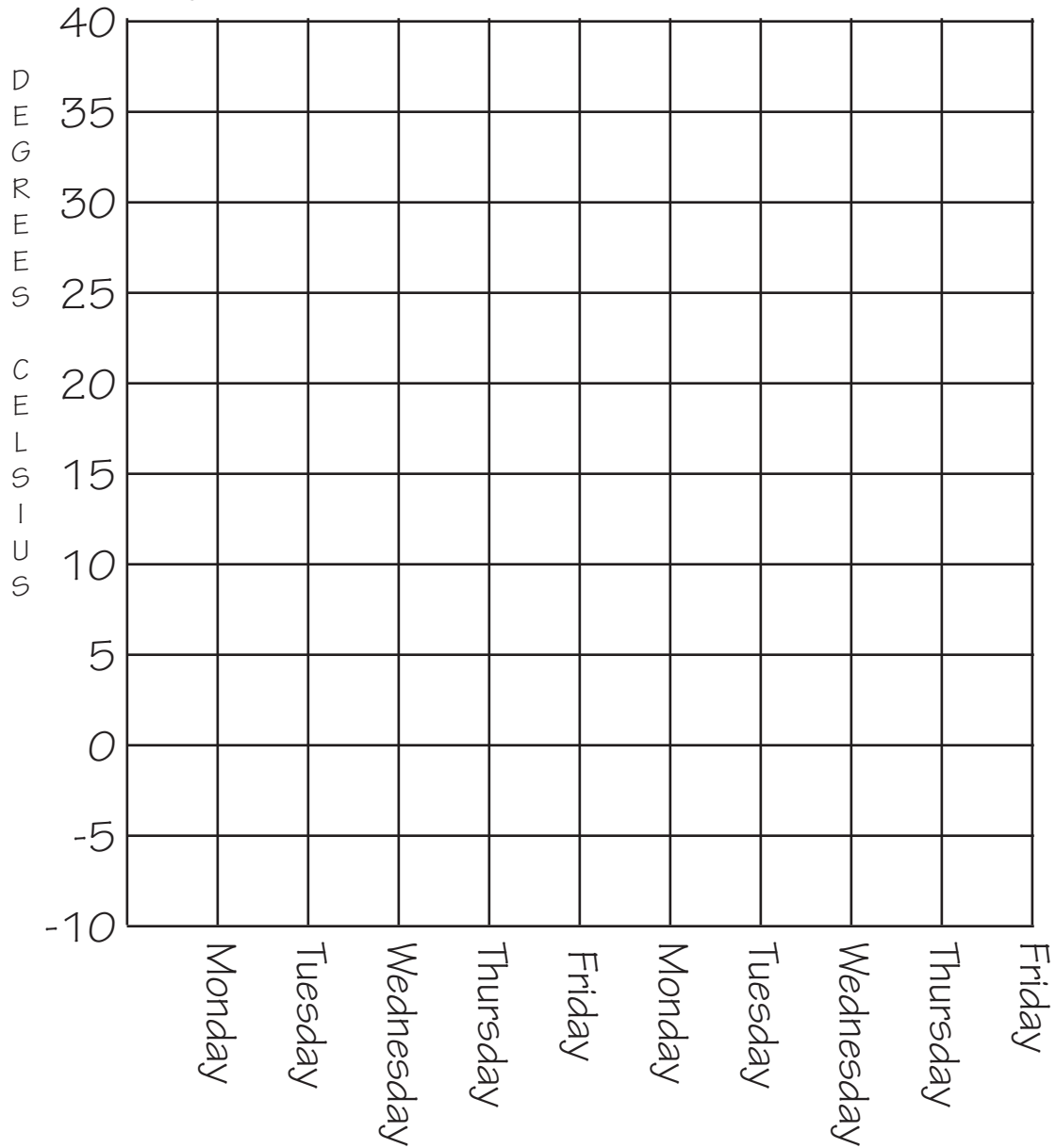
## VOCABULARY

**Celsius:** Temperature scale, 0° is the freezing point of water and 100° is the boiling point of water.

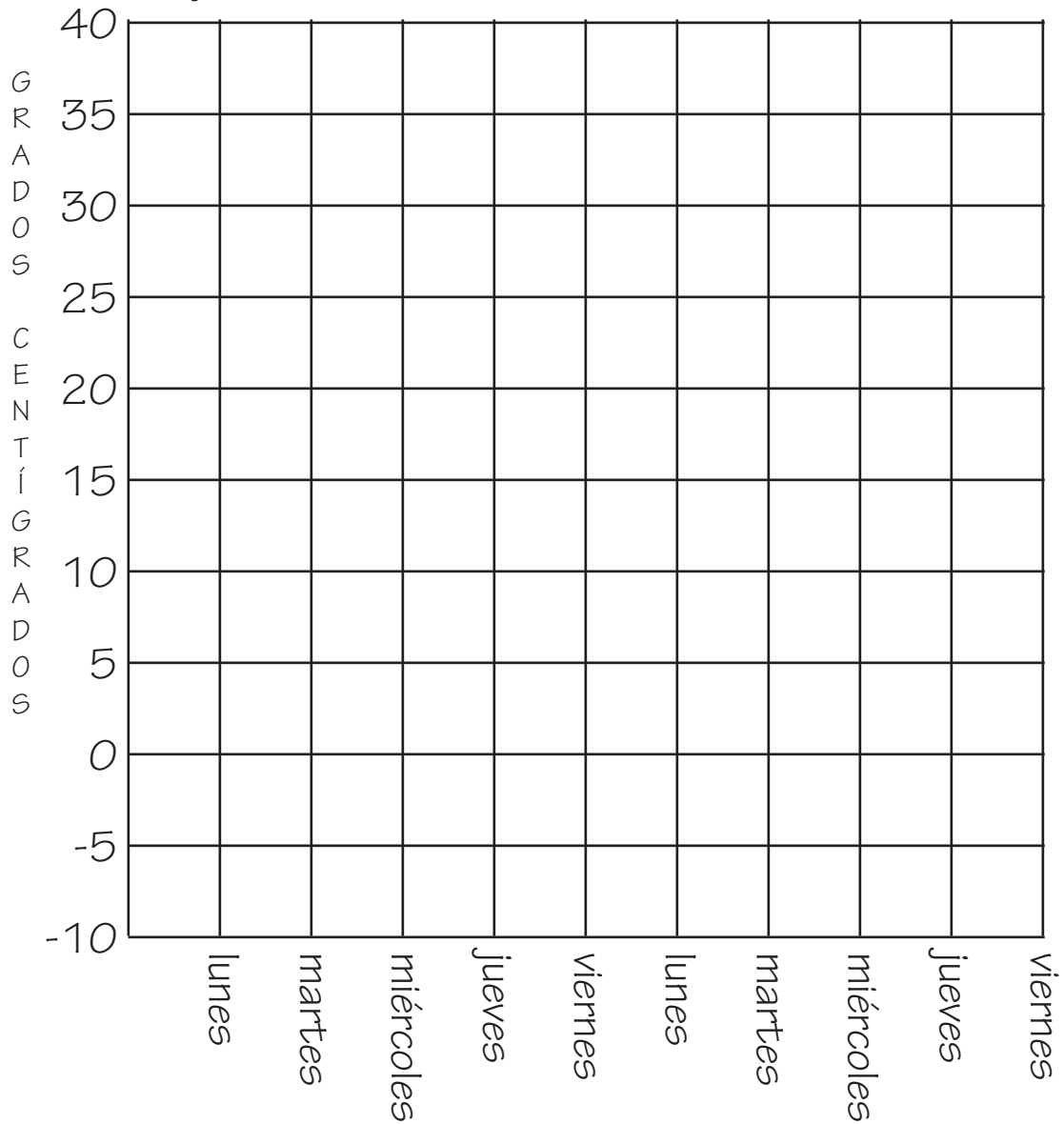
**Fahrenheit:** Temperature scale, 32° is the freezing point of water and 212° is the boiling point of water.

**Kelvin:** Temperature scale, 273 is the freezing point and 373 is the boiling point of water.

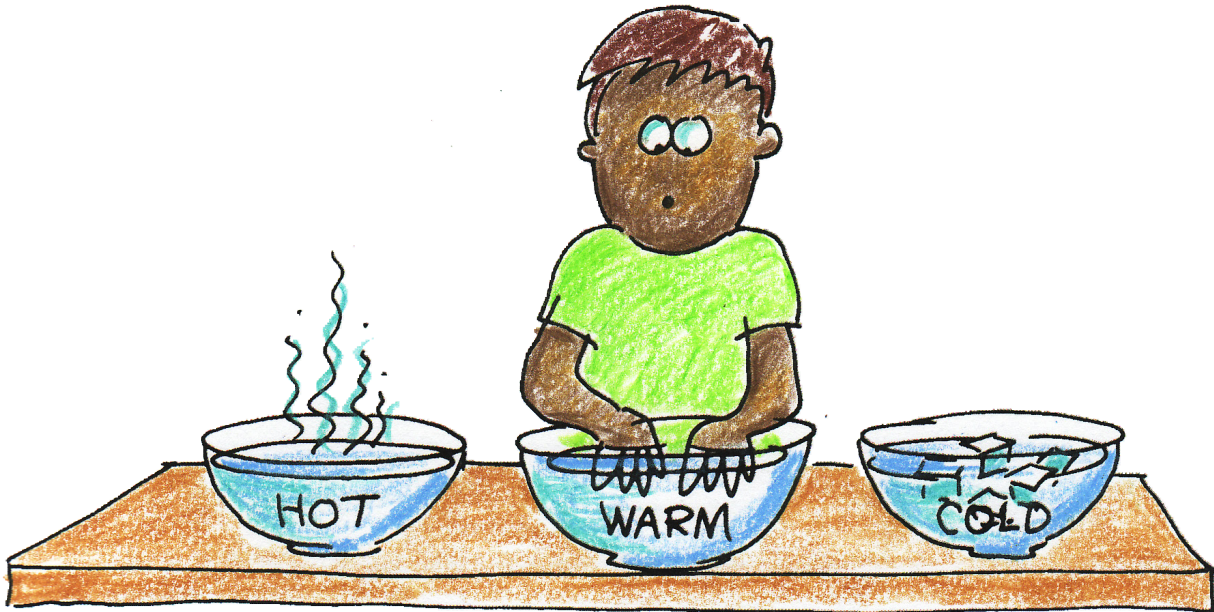
# Temperature



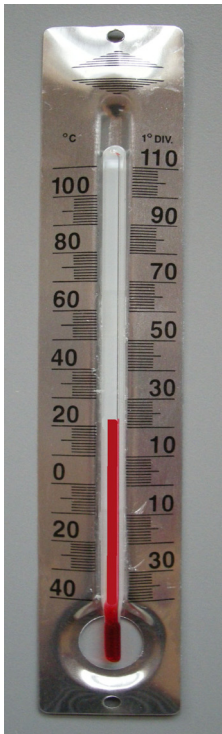
# Temperatura



# Using a Thermometer



Put your hand in hot water and it feels hot. Put that hand into warm water and the warm water feels cold. Put your hand into ice water and it feels cold. Put that hand into warm water and the warm water will feel hot. Your hands can fool you!



Scientists use **thermometers** to find the **temperature** of the warm water. Warm water will make the thermometer warm. The alcohol in the thermometer will move up the tube.

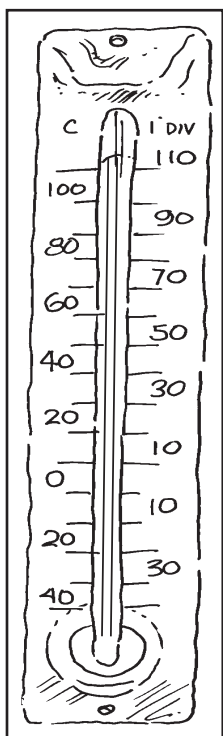
Cold water will take heat from the thermometer. The alcohol in the thermometer will move down the tube.

To find the temperature, look at the numbers next to the tube. The number at the top of the alcohol is the temperature.

# Using a Thermometer



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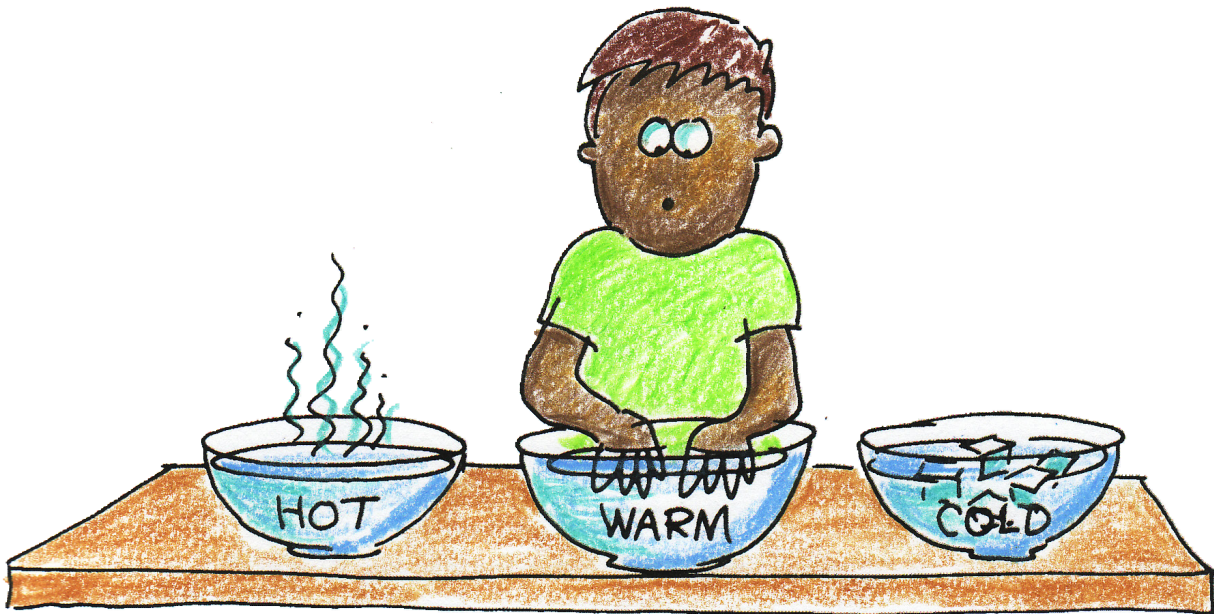


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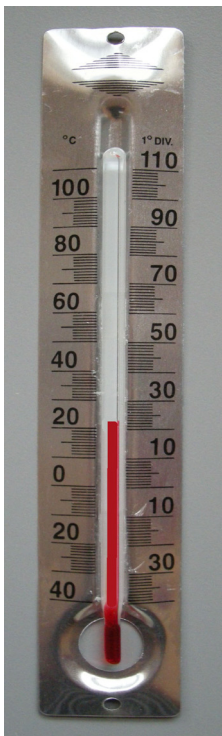
Cold water will take heat from the thermometer. The alcohol in the thermometer will move down the tube.

To find the temperature, look at the numbers next to the tube. The number at the top of the alcohol is the temperature.

## Usando un termómetro



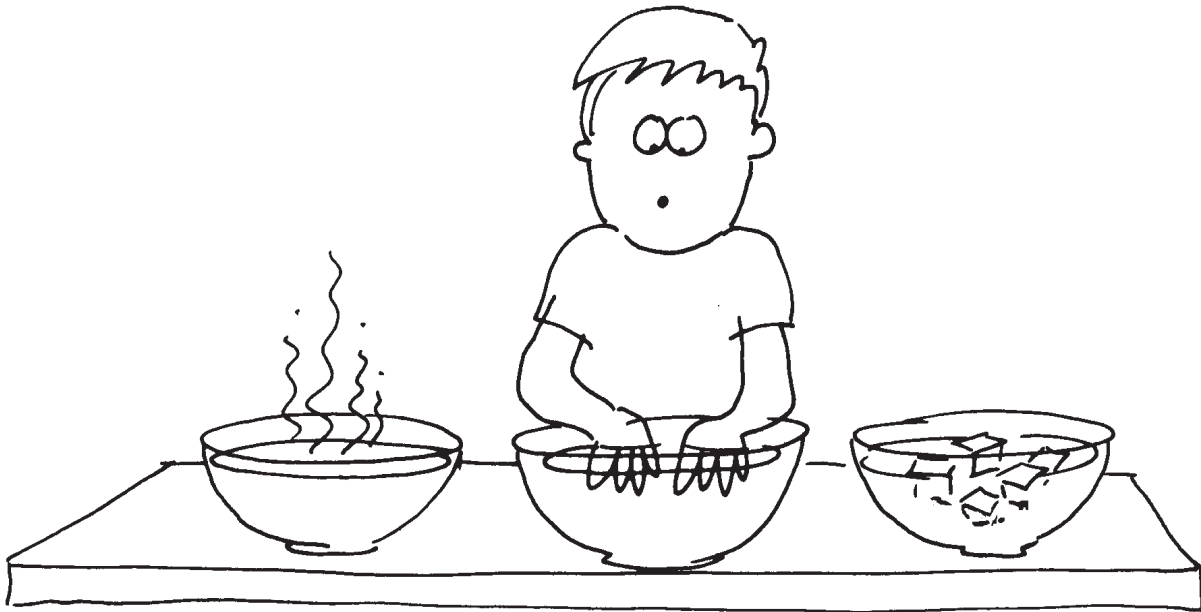
Pon tu mano en agua caliente y se siente caliente. Pon esa mano en agua tibia y el agua tibia se siente frío. Pon tu mano en agua de hielo y se siente frío. Pon esa mano en agua tibia y el agua tibia se siente caliente. ¡Tus manos pueden engañarte!



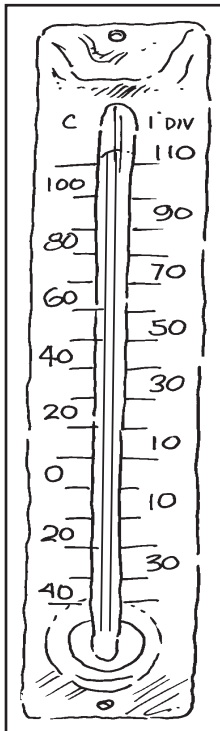
Los científicos usan los **termómetros** para encontrar la **temperatura** del agua tibia. Agua tibia hace que el termómetro está tibia. El alcohol en el termómetro se mueve hacia arriba en el tubo. Agua frío toma el calor del termómetro. El alcohol en el termómetro se mueve hacia abajo en el tubo.

Para encontrar la temperatura, mira a los números al lado del tubo. El número que está en la parte superior del alcohol es la temperatura.

# Usando un termómetro



Pon tu mano en agua caliente y se siente caliente. Pon esa mano en agua tibio y el agua tibio se siente frío. Pon tu mano en agua de hielo y se siente frío. Pon esa mano en agua tibio y el agua tibio se siente caliente. ¡Tus manos pueden engañarte!



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If you like this sample, consider purchasing the full product "**What's the Temperature?**". The activities and support materials can enrich your science lessons while saving you prep time.

Need more ideas or inspiration?

For more great science resources, visit:

[www.teacherspayteachers.com/Store/Simply-Science](http://www.teacherspayteachers.com/Store/Simply-Science)

To visit my web site:



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You'll find science resources for kids, parents, and teachers.

I've also included resources for gifted education.



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visit: [www.teacherspayteachers.com/Store/Simply-Math](http://www.teacherspayteachers.com/Store/Simply-Math)

Let me know if you have compliments, questions, or suggestions. I look forward to hearing from you.

My email address is: [barbara@simplyscience.com](mailto:barbara@simplyscience.com).

