

**ACTIVITY** ■ What Is Heat?**Comparing Fahrenheit, Celsius, and Kelvin  
Temperature Scales**

Answer the following questions by using the chart of the three temperature scales on the next page. Use a straight edge to read the corresponding values of the three scales.

1. At what temperature does water freeze on the Fahrenheit scale? \_\_\_\_\_  
On the Celsius scale? \_\_\_\_\_  
On the Kelvin scale? \_\_\_\_\_
2. At what temperature does water boil on the Celsius scale? \_\_\_\_\_  
On the Kelvin scale? \_\_\_\_\_  
On the Fahrenheit scale? \_\_\_\_\_
3. The weather forecaster predicts that today's high will be  $70^{\circ}$ . Which temperature scale is being used? \_\_\_\_\_  
What would be the corresponding temperatures on the other two scales? \_\_\_\_\_
4. "It was so cold yesterday that the temperature only reached  $275^{\circ}$ !" Which temperature scale is being used? \_\_\_\_\_  
What would be the corresponding temperatures on the other two scales? \_\_\_\_\_
5. "Today's temperature of  $42^{\circ}$  in Chicago set a record high for the month of August."  
Which temperature scale is being used? \_\_\_\_\_  
What would be the corresponding temperatures on the other two scales? \_\_\_\_\_

