

1. Draw Figure 8.6. Make sure to include all labels.
2. Write the equations to convert from Fahrenheit to Celsius temperature scales.
3. Thermal energy is caused by a(n) \_\_\_\_\_ in temperature.  
a) increase                      b) decrease                      c) change                      d) none of these
4. What is temperature?
5. A \_\_\_\_\_ is an instrument that measures the exact temperature.
6. In a liquid thermometer, the expansion of the liquid is related \_\_\_\_\_ to the increase in temperature.  
a) inversely                      b) proportionally
7. How do digital thermometers work?
8. Absolute zero is the temperature where molecules are completely \_\_\_\_\_ with no movement at all.  
a) full                      b) melted                      c) intact                      d) frozen
9. Absolute zero occurs at a temperature of  
a)  $273^{\circ}\text{C}$                       b)  $-273^{\circ}\text{C}$                       c)  $273^{\circ}\text{F}$                       d)  $-273^{\circ}\text{F}$
10. What is the "Kelvin" scale of measurement?
11. How do you convert from Celsius to Kelvin?
12. Describe the upper limit of temperature.