**Guided Reading 8.2 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_\_\_**

**Integrated Science – Matter**

1. Thermal energy is caused by a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in temperature.
   1. Increase
   2. Decreased
   3. Change
   4. None of these
2. What is temperature?
3. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is an instrument that measures the exact temperature.
4. In a liquid thermometer, the expansion of the liquid is related \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the increase in temperature.
   1. Inversely
   2. Proportionally
5. Absolute zero is the temperature where molecules are completely \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with no movement at all.
   1. Full
   2. Melted
   3. Intact
   4. Frozen
6. Absolute zero occurs at a temperature of
   1. 273°C
   2. -273°C
   3. 273°F
   4. -273°F
7. What is the “Kelvin” scale of measurement?
8. How do you convert from Celsius to Kelvin?