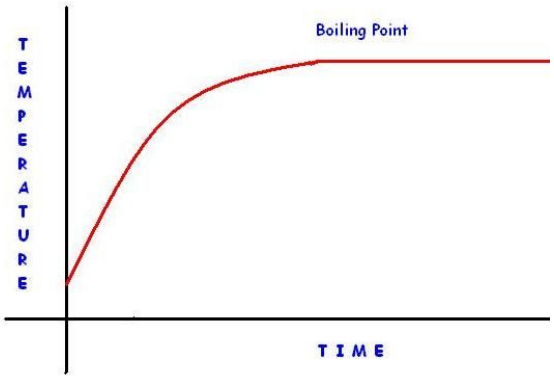
The boiling point of water

The boiling point of water depends on the atmospheric pressure, which changes according to elevation. Water boils at a lower temperature as you gain altitude.

Minute	Temperature °C		Minute	Temperature °C
1	36.5 °C		6	94.7 °C
2	53.5 °C		7	95.8 °C
3	62.3 °C		8	98.5 °C
4	74.2 °C		9	98.6 °C
5	82.5 °C		**Mean:**	97.9 °C

*Sketch the graph under your data table.



Questions: (You may use pages 50 & 51 to help you answer some of the questions)

1. *Describe* what happens to the temperature of the liquid when it reaches the boiling point.
2. Why can't a liquid get any hotter than its boiling point?
3. Look at your graph. Identify which time frame on your graph shows increasing kinetic energy and explain how you can tell.
4. What is the name of the phase change that is occurring in this lab?
5. Why is the boiling point different here than at sea level?