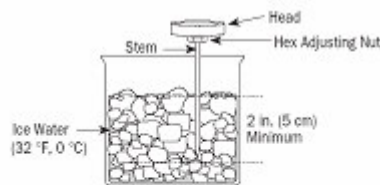


# Calibrating Thermometers

## Ice Bath Method:

- ◆ Fill a large glass with crushed ice
- ◆ Add just enough tap water to cover ice
- ◆ Insert the probe thermometer into the ice bath
- ◆ Wait about 1 minute
- ◆ With the thermometer still in the ice bath, use a wrench to turn the adjusting nut until the thermometer dial points to 32°F (if calibrating a digital thermometer, press the reset button to automatically calibrate).



## Boiling Water Method:

- ◆ Bring tap water to a boil in a deep pan
- ◆ Insert the probe thermometer into the boiling water (do not let the stem or probe touch the bottom or sides of the pan)
- ◆ Wait about 1 minute
- ◆ With the thermometer still in the water, use a wrench to turn the adjusting nut until the thermometer dial points to 212°F (if calibrating a digital thermometer, press the reset button to automatically calibrate)

Point to Remember: The boiling point of water decreases as elevation increases and the boiling temperature must be adjusted accordingly.

<u>Altitude above sea level</u>	<u>Water Boiling Point</u>
0 (sea level)	212 °F (100 °C)
1000 feet (305 meters)	210 °F (98.9 °C)
2000 feet (610 meters)	208 °F (97.8 °C)
3000 feet (914 meters)	206.4 °F (96.9 °C)
4000 feet (1219 meters)	204.5 °F (95.8 °C)
5000 feet (1524 meters)	202.75 °F (94.9 °C)
8000 feet (2438 meters)	197.5 °F (91.9 °C)