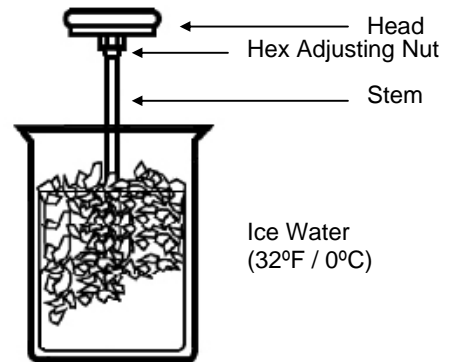


# CALIBRATING A METAL STEM THERMOMETER

In order to ensure that your thermometer is accurate, the thermometer should be calibrated regularly according to manufacturer's recommendations and after an extreme temperature change or if the unit has been dropped. Thermometers may be calibrated by the *ice point method* or the *boiling point method*.

## ***Ice Point Method***

- Fill an insulated container (such as a foam cup) full of potable crushed ice.
- Add cold water.
- Allow time for the mixture to come to 32°F (about 4-5 minutes).
- Add more crushed ice to ensure a slushy mixture.
- Insert a metal stem thermometer 3"- 4" into the center of the slushy mixture. Make sure the stem of the thermometer is away from the bottom and sides of the container.
- Hold the thermometer until the temperature stabilizes (the needle will stop moving), then record the temperature.
- Repeat to verify the temperature reading.
- If the reading is not 32°F, use a wrench or pliers on the calibration nut under the top of the thermometer to adjust the reading to 32°F.  
Keep the metal stem in the ice/water mixture when making this adjustment.
- Repeat the procedure to verify results. Recalibrate if necessary.



## ***Boiling Point Method***

- Submerge the sensor into boiling water. Wait until the needle stops then use a small wrench to turn the calibration nut until the thermometer reads 212°F.

