

Heat of Fusion Lab

Purpose: Determine the heat of fusion of water.

Materials: Styrofoam cup, water, balance, thermometer.

Procedure: **Consider the data needed** to determine the heat of fusion of water. Place a cube of ice in a cup of water. Watch the ice melt (EXCITING!!) while **collecting appropriate data**.

PERFORM THREE TRIALS. Hint: Consider problem 11 in chapter 17 of the problem solver.

Data/Graphs/Calculations: Show the math used to determine the heat of fusion of water. Include a graph of the temperature changes.

Conclusion: Give a written explanation of the logic and the math used to determine the heat of fusion. Be sure to include a statement about heat gained and heat lost.