Chem 1314 Sections 14 – 21 and 23
Laboratory, Week of October 4, 2015
Fall 2015

Name_____
TA Name _____
Lab Section #_____

ALL work must be shown to receive full credit. **Due upon arrival in laboratory.**

Pre-Laboratory Questions:

1. In this experiment you will be immersing a piece of metal that has been heated to a known temperature into a sample of water of known temperature (room temperature). Initially the temperature of the metal is higher than the temperature of the water.

   a) When a piece of hot metal is added to the water (initially at a temperature around room temperature) does the metal gain or lose heat? Explain.

   b) When a piece of hot metal is added to the water (initially at a temperature around room temperature) does the water gain or lose heat? Explain.

   c) What is the relationship between the heat gained/lost by the metal and the heat gained/lost by the water?

   d) After adding the piece of metal to the water, how are the final temperature of the metal and water related?