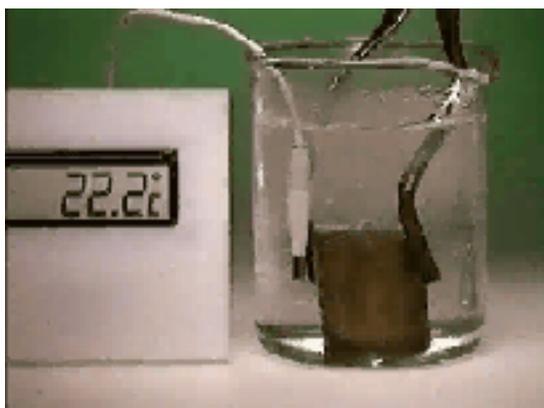


Chem 1315 Section 1  
InClass Exercise 3.1  
Fall 2003

Name \_\_\_\_\_ Lab Section # \_\_\_\_\_

**Due at the end of class.**



The four pictures shown above summarize an experiment that was shown on the movie you just saw. An Aluminum cylinder 2.0 cm in diameter and 3.0 cm high was heated in a Bunsen burner and then plunged into a beaker containing 225 mL of water at 22.2 °C. The temperature of the water finally levels off at 35.0 °C. What was the initial temperature of the Al cylinder? (The density of Al is 2.7 g/cc; the specific heat of Al is 0.90J/gK; assume all of the heat is transferred directly from the cylinder to the water.) Show your work.