

Experiment 06
Calorimetry
Prelab Report Form

Name: _____

Date: _____

Class Ticket: _____

Data

Prelab questions

1. What is the relationship between heat and calorimetry?

2. Write a balanced equation for the dissolution process of sodium carbonate.



3. A metal sample weighing 53.4 g and at a temperature of 120.5°C was placed in 48.6 g of water in a calorimeter at 23.2°C. At equilibrium, the temperature of the water and metal was 35.4°C.

a. What was ΔT for the water?

b. What was ΔT for the metal?

c. Calculate the specific heat of the metal.

4. What is the difference between specific heat and heat capacity? (*Hint, look at the units*)