

Homework Assignment #3: Chapter 2
REVISED-2-9-09

Name: _____
(Print and Pledged)

Purpose for homework: To refresh on some calorimetry skills used in General Chemistry and to see differences between General Chemistry calculations and more advanced calculations

Instructions: Work the following problems **using the homework format in your syllabus.** (Show all work and circle answers.) Feel free to work together but turn in your own work.

Exercises from Ch. 2 →2.7 a

Problems from Chapter 2→2.8 (but not ΔH of formation part)

Additional questions...

- 1) What is the difference between Eq. 2.21a and 2.21b? (In other words, when should you use each formula?)
- 2) The temperature of a bomb calorimeter rose by 1.712 K when a current of 2.86 A was passed for 22.5 s from a 12.0 V source. Calculate the calorimeter constant.

Don't forget that the instructions for both exercises and problems say to assume that all gases are perfect and that the thermochemical data are for 298.15 K unless otherwise stated.