CHEM 115
Winter 2000

HOMEWORK \#3

Write answers to the following problems:
Text Chapter 3 :
*Review Problems (on p. 164-165): 2, 3, 4, 5, 6, 7, 8, 10, 12
*Within the chapter problems (found on page __): answers back of text
3-1 (p.89), 3-6 (p.95), 3-8 (p.101), 3-12 (p.107)

Chemistry in your daily life:"Proving that your annual auto emissions weigh more than your vehicle"

Data needed (for your vehicle, or your family's vehicle):
*Approx weight (lbs) of the vehicle.
*Average miles driven per year.
*Average fuel efficiency (miles per gallon of gasoline).
Estimate the total weight of CO 2 produced by your vehicle per year and compare it to the weight of the vehicle. (Unless you drive a very fuel-efficient vehicle, even the weight of the fuel carbon alone will exceed the vehicle weight).
(Note: Each gallon of gasoline weighs about 5 lbs , producing (44/12)*5 or 18 lbs of CO 2 exhaust)

