

# Participation Assignment

## CHEM 1050-Chemistry and the Citizen

Name:

#1

Section: 03, MW

Due Date: Wednesday 1/6/2016

1. Write the five SI units mentioned in our textbook (measurement/name/abbreviation).

2. Write the abbreviations and numerical factors for the following six metric prefixes: giga, kilo, deci, centi, milli, and micro.

3. Write each of the following in scientific notation:

a. 0.005601

b. 234.05

4. Define significant figure.

5. Count the number of significant figures in each of the following:

a. 2.03 cm

b. 2.030 cm

c. 0.203 cm

d. 0.020 cm

e. 200 cm

f.  $2.00 \times 10^{-1}$  cm

g.  $2.00 \times 10^3$  cm

6. Write the rules for using significant figures in calculations in each case:

a. multiplication and/or division

b. addition and/or subtraction

7. What is the numerical relationship between inches and centimeters?

8. What is the numerical relationship between kilometers and miles?

9. Convert 23.44 meters to centimeters.