

Bauck's CHEM Ch. 12 Test Review, part 1

This is an optional assignment due the day of the test.

Materials: loose leaf paper, pen and/or pencil (You will be given a periodic table.)
Format: math problems; representative particle topics
Test date: _____
Test value: 200 points

BACKGROUND INFO:

- 1) **GAM, GFM, GMM** – What are these? How are they measured?
- 2) What is the **molar volume** of a gas at STP?
- 3) **Mole:** What is it? Why is it so important in chemistry?
- 4) **Representative particles:** What are they? List the four main types of r.p.'s and identify examples of each.
- 5) **STP:** What is it? When is it used?
- 6) **MATH PROBLEMS** – Give an example of each for this review. Show all work and units.
 - (problems E1-E3 in Ch. 12 notes) mol → r.p. r.p. → mol
 - (problems E6-E7 in Ch. 12 notes) find GFM or GMM
 - (problems E8-E9 in Ch. 12 notes) mol → mass (g) mass (g) → mol
 - (problems E10-E11 in Ch. 12 notes) L → mol mol → L
for gases at STP
 - (problems E12-E13 in Ch. 12 notes) mass (g) → r.p. r.p. → mass (g)
 - (other problems from Mole Conversion Practice #3)
mass (g) → L L → mass (g)
L → r.p. r.p. → L
 - (problems E14-E15 in Ch. 12 notes) g/mol → g/L g/L → g/mol
 - (problems E16-E17 in Ch. 12 notes) gas density at STP
percent composition

NOTE: You may use the Mole Map to study or to check yourself, but do not become dependent on it to set up and work math problems!