Bauck's CHEM Ch. 10 Test Review
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
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BACKGROUND INFO:
1) **Empirical formula**—What is it?
2) **GAM, GFM, GMM** – What are these? How are they measured?
3) What is the **molar volume** of a gas at STP?
4) **Molar mass** – What is it?
5) **Mole**: What is it? Why is it so important in chemistry?
6) **Molecular formula**—What is it?
7) **Percent composition**—What is it?
8) **Representative particles**: What are they? List the four main types of r.p's and identify an example of each.
9) **STP**: What is it? When is it used?
10) MATH PROBLEMS – Give an example of each for this review.

- (problems E1-E3 in notes)   mol→ r.p.   r.p. → mol

- (problems E4-E5 in notes) - 2 steps   mol → atom or ion in a cmpd.
                                           atom or ion in a cmpd. → mol

- (problems E6-E7 in notes)   find GFM or GMM

- (problems E8-E9 in notes)   mol → mass (g)   mass (g) → mol

- (problems E10-E11 in notes)   mol → L   L → mol

- (problems E12-E13 in notes) - 2 steps   mass (g) → r.p.   r.p. → mass (g)

- (problems E14-E15 in notes)   gas density: g/L → g/mol   g/mol → g/L

- (problem E16-E17 in notes)   percent composition

- (problem E18-E19 in notes)   empirical formula

- (problems E20-E21 in notes)   molecular formula

- (other problems from Mole Conversion Practice #3) - 2 steps
                                           mass (g) → L   L → mass (g)
                                           L → r.p.   r.p. → L

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*** Note ***
There will be at least one question pertaining to material in past chapter(s) or unit(s).