

# **Stoichiometry and The Mole – Review Guide**

**Remember:**

- 1 mole =  $6.02 \times 10^{23}$  atoms, molecules, formula units
- 1 mole = grams (of molar mass)
- 1 mole = 22.4 liters (L) of gas



- 1) The process used to predict the amount of a product that will be formed is stoichiometry
- 2) If you know the mass of a substance, you can find the number of moles by dividing it by the...  
molar mass of substance
- 3) If you know the number of particles (atoms) of a substance, you can find the number of moles by dividing it by...  
Avogadro's Number
- 4) Summarize the steps of a gram-to-gram stoichiometry problem:  
  
Grams A → Moles A → Moles B → Grams B
- 5) The essential stoichiometry problem needed to convert from one chemical to another is:  
Mole to Mole
- 6) Two reactants undergo a chemical reaction. At the end of the reaction, Chemical A still exists in the container, while Chemical B has been completely used up. Which is the limiting reactant?  
Chemical B
- 7) What is a mole? A unit of measurement used to count atoms/molecules.
- 8) What is Avogadro's Number?  $6.02 \times 10^{23}$
- 9) What does Avogadro's number tell us? The number of atoms or molecules in a mole.

# Study Guide The Mole Supplemental Problems

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## **Study Guide The Mole Supplemental Problems:**

*Solutions Manual and Study Guide to Accompany Introduction to Organic Chemistry, 4th Ed* Paul A. Bartlett, Judith G. Koch, 1992      *Study Guide for Giancoli's Physics, Principles with Applications, 2nd Edition* Joseph J. Boyle, 1985      *Physics, Study Guide* Sharon Ferrett, 1994-10      *Study Guide to Chemistry and Life* John William Hill, Dorothy M. Feigl, 1978

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