

To know sheet 1: Stoich and Review

- How to calculate average atomic mass with percent abundances
- How to use $PV=nRT$
- When to use $22.4\text{ L} = 1\text{ mol}$
- How to recognize STP
- How to read mass spec data
- How to find moles given:
 - Grams
 - Molarity
 - Volume at stp
 - Volume not at stp
- How to find an empirical formula
- How to find a molecular formula
- How to find a formula for a hydrate
- How to do limiting reactant problems
- How to use a mole ratio within a compound
- How to draw and analyze particle views
- How to use the molar mass kitty cat equation
- How to calculate percent by mass
- How to predict products

When in doubt convert to moles and possibly write and balance an equation!