**PO 1 Unit Exam (Chapters 4, and 5)**

**STUDY GUIDE**

There will be conceptual AP Style MC questions. The MC questions will not require a calculator to solve even though many of these questions will contain quantities.

Things to know well:

* Gravimetric Analysis
* Dilution
* What makes an ionic compound a solid, aqueous, or liquid
* Difference, conceptually, between ionic and covalent bonds
* Stoichiometry/mole ratios in a balanced chemical equation (conceptual)
* Properties of ionic and covalent compounds
* Gas mass vs speed
* Understanding of an ideal gas, what it is, and how it behaves.
* Conceptual understanding of the simple gas laws and the ideal gas law
* Limiting reactant, theoretical yield, and percent yield
* STP, what it is and how it’s used mathematically
* Net ionic equation, complete ionic equation, molecular equation

Calculations to know well:

* Percent Yield
* Dilution
* Partial Pressures
* Vapor Pressure