

## **ACS CHEMISTRY FINAL EXAM STUDY GUIDE**

- milli (m) (m has 3 lines, upside down it's a w (win) so negative=loss):  $10^{-3}$
- micro (inappropriate joke, i don't want Quizlet to ban me lol):  $10^{-6}$
- nano:  $10^{-9}$
- pico (p):  $10^{-12}$
- mono: one, single, alone
- di: two
- tri: three (tricycle)
- tetra: four (tetrapod) - dogs, cats, vertebrate animals
- penta: five (pentagon)
- hexa: 6 (hexagon)
  
- hepta: 7 (heptagon)
- octa: 8 (octopus, stop)
- nona: 9 (no = neign in German)
- deca: 10 (decade = 10 years)
- molar mass: the mass of one mole of a pure substance
- molar ratio: ratio of coefficients in a chemical equation
- limiting reactant: A reactant that is totally consumed during a chemical reaction, limits the extent of the reaction, and determines the amount of product.
- percent composition: the percent by mass of each element in a compound
- molarity: the number of moles of solute per liter of solution
- percent yield: actual yield/theoretical yield x 100
- empirical formula: a chemical formula showing the ratio of elements in a compound rather than the total number of atoms
- molecular formula: A chemical formula that shows the number and kinds of atoms in a molecule, but not the arrangement of the atoms.
- gas laws: describe how the behavior of gases is affected by pressure, volume, and temperature

# 2nd Semester Chemistry Final Exam Study Guide

**M Walker**

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