**Unit 5 – Nomenclature Honors Chemistry**

**Georgia Performance Standards:**

SC1 – Analyze the nature of matter and its classifications.

c. Predict formulas for stable ionic compounds (binary & tertiary) based on a balance of charges.

d. Use IUPAC nomenclature for both chemical names and formulas:

- Ionic Compounds (binary & tertiary)

- Covalent Compounds (binary & tertiary)

- Acidic Compounds (binary & tertiary)

**Essential Questions**

1. Predict formulas for binary ionic compounds based on a balance of charges.
2. Predict formulas for tertiary ionic compounds based on a balance of charges.
3. Use IUPAC nomenclature for both chemical names and formulas for
   1. Binary type I (ionic) compounds.
   2. Binary type II (ionic) compounds.
   3. Tertiary type I (ionic) compounds.
   4. Tertiary type II (ionic) compounds.
   5. Binary type III (covalent) compounds.
   6. Tertiary type III (covalent) compounds.
   7. Binary acidic compounds.
   8. Tertiary acidic compounds.

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| Day | Agenda |
| 1 | Warm Up Notes: Type I Binary Ionic Compounds CW #1: Type I Binary Ionic Compounds #1-10 Notes: Type II Binary Ionic Compounds CW #1 cont.'d: Type II Binary Ionic Compounds #11-20 T.O.D. : Sticky Notes |
| 2 | Warm Up Review Homework Notes: Polyatomic Ions & Type I Tertiary Ionic Compounds CW #2: Type I Tertiary Ionic Compounds #1-10 Notes: Type II Tertiary Ionic Compounds CW #2 cont.'d: Type II Tertiary Ionic Compounds #11-20 T.O.D.: Move Over Emeril |
| 3 | Warm Up Review Homework Notes: Type III Covalent compounds CW #3: Type III Covalent compounds #1-10 Review Types I, II, & III Compounds T.O.D.: Sticky Notes |
| 4 | Warm Up Review Homework Notes: Binary Acidic Compounds CW #3 cont.'d: Binary Acids#11-20 Notes: Tertiary Acidic Compounds CW#3 cont.'d: Tertiary Acids #21-30 T.O.D. Sticky Notes |
| 5 | Warm Up Review: Student Created Flow Charts for writing formulas CW #4: Nomenclature Race T.O.D. 3-2-1 |
| 6 | Warm Up Lab: Forming and Naming Ionic Compounds Formal Lab Report Directions Write Formal Lab Report T.O.D.: 3-2-1 |
| 7 | Warm Up Review for Quiz: Nomenclature Jeopardy and On-line Quizzes T.O.D.: 3-2-1 |
| 8 | Warm Up Nomenclature Quiz Read article, "Ancient Soil Chemists of the Amazon" by Mark Michalovic and respond to questions |