

# Chemical Formulas and Compounds

Text	Unit Objectives:
10.1	1. You will be able to convert between the grams, moles, and the number of atoms in an element.
10.1 10.2  10.3	2. You will become more comfortable with chemical formulas and be able to convert between the grams, moles, and number of atoms in a molecule or compound.  Types of Chemical Formulas to know: <ul style="list-style-type: none"> <li>• empirical formulas</li> <li>• molecular formulas</li> <li>• structural formulas</li> </ul>
9.2	3. Be able to predict the formula for ionic compounds based on the ion's charges.
9.2 9.3	4. Learn to properly name ionic compounds as well as molecular compounds.
9.4	5. Learn to properly name acids.
10.3	6. Be able to determine the percent composition of a compound if given the mass.
10.3	7. Be able to determine the formula of a compound if given the mass of the elements that form it.

### Essential Vocabulary

Empirical Formulas, Gram-Formula Mass, Gram-Molecular Mass, Hydrated Salt, Mole of a Compound, Molecular Formula, Polyatomic Ion, Structural Formulas

### Announcements: