

Chemistry Study Guide

1. Be able to recognize, name and write the formulas for molecular compounds (including those with trivial names)
2. Know which non-metal elements exist in pairs (diatomic) or fours or eights
3. Be able to recognize, name and write formulas for ionic compounds (including simple binary ionic compounds, those with multi-valent metals, polyatomic ions and hydrates)
4. Be able to recognize, name and write formulas for acids
5. Balancing equations
6. Types of reactions - classifying
7. Types of reactions - predicting reactants or products
8. Predicting reactions including states of matter using the solubility chart
9. Predicting reactions starting with sentences describing the reaction, balance the reaction and include the states of matter for each chemical species