

Chapter 2 Study Guide:

Chapter Objectives—Upon completion of this chapter, students will be able to...

- Locate these items on the periodic table: group, period, representative element, transition element.
- Define the terms cation and anion and show how they are related to the terms metal and nonmetal.
- Distinguish between ionic compounds and molecular compounds.
- Distinguish among chemical formula, molecular formula, and formula unit.
- Show that a compound obeys the law of definite proportions.
- Show that two different compounds composed of the same two elements obey the law of multiple proportions using experimental data.
- Infer the charge of an ion using the periodic table.
- Define a polyatomic ion and recognize the names and formulas of common polyatomic ions.
- Explain why a systematic method of naming chemical compounds is necessary.
- Write the chemical formulas for binary ionic compounds.
- Identify a binary ionic compound by name when given the formula of the compound.
- Identify by name and write formulas of ternary ionic compounds.
- Identify by name and write formulas of binary molecular compounds.
- Identify by name and write formulas for common acids.