

CHAPTER 2 - Introduction: The Chemical Basis of Life

Chapter Reading Guide

1. Describe the levels of organization from an actin molecule to a complex insect flight muscle.
2. Define a compound and explain how compounds in living organisms are different from compounds in nonbiological materials.
3. Define the atomic number and mass number of an atom.
4. Define an isotope and explain what makes some isotopes radioactive. Explain why radioactive isotopes are important to biologists.
5. Explain how the electron configuration of an atom influences its chemical behavior. (*Remember: structure vs. function*)
6. Distinguish among nonpolar covalent, polar covalent, and ionic bonds, noting their relative strengths and functions and the methods by which they are diagrammed.



