Ch 2 Goal Statements

I can explain how carbon can join to other carbon atoms in chains and rings to form large and complex molecules.

I can recognize the six most common elements in organic molecules

(C, H, N, O, P, S).

I can describe the composition of the four major categories of organic molecules

(carbohydrates, lipids, proteins, and nucleic acids).

I can explain the general structure and primary functions of the major complex organic molecules that compose living organisms.

I can describe how dehydration and hydrolysis relate to organic molecules.

I can explain the role of enzymes and other proteins in biochemical functions (e.g., the protein hemoglobin carries oxygen in some organisms, digestive enzymes, and hormones).

I can recognize and describe that both living and non-living things are composed of compounds, which are themselves made up of elements joined by energy-containing bonds, such as those in ATP.

I can recognize and explain that macromolecules such as lipids contain high energy bonds.