

CHAPTER 1	Thought Lab 1.1: Lewis Structures	BLM 1.1.5
HANDOUT		

The rules that you learned for drawing Lewis structures of simple molecules were based on molecules having a central atom. Many molecules do not have a central atom, but are often written in a way that gives you clues about their structures. In this lab, you will attempt to draw the Lewis structures of some of these molecules. You have already attempted two such molecules,  $C_2H_2$  and  $C_2H_4$ . The symmetry of these molecules helped you determine their structure. In many cases, chemists and biochemists write molecular formulas in groups of atoms. For example, a certain amino acid (glycine) can be written,  $NH_2CH_2COOH(s)$ . You can try to isolate the groups, draw their structures, and then attach them together.

Work with a partner. First, attempt to draw the structures individually. When each of you has found what you believe to be the correct structure, compare your structures. If you do not have the same structure, discuss them and try to come to agreement.

Draw Lewis the structures of the following compounds:

