

Name _____

Molecular Models 1

For this experiment, we will be exploring molecular structure and molecular shape using a variety of approaches. We will not record anything in our lab notebooks. Instead, we will use the attached pages to record structures and observations as we move through the various portions on the experiment. These pages are available electronically at chemlab.truman.edu at the following URL: <http://chemlab.truman.edu/CHEM121Labs/MolecularModeling1.htm>.

Pre-Lab Requirements

Before you come to lab, you should complete the Lewis Dot Structures for the compounds we will investigate in lab. The sections and number of compounds per section are listed below. If you do not arrive at lab with the Lewis structures completed, you will lose lab preparation points for the day. Complete the sections as described below:

Group A	Choose 10 compounds
Group B	Choose 6 compounds
Group C	Choose 6 compounds
Group D	Choose 4 compounds
Group E	Choose 4 compounds
Group F	Choose 8 compounds
Group G	Do the three CH_2Cl_2 compounds
Group H	No prelab requirements

In Lab

In lab, you and your partner will build models and use your Lewis structures to complete the remainder of the tables.

Post-Lab

There is no *Discussion and Conclusions* section for this experiment, instead, answer the questions posed on the last page of this handout. You should answer the questions on separate paper and attach the answers to this handout.

Material to be turned in

Each student will turn in their completed tables and answers to the post-lab questions for grading.