

LAB 11 “Building Molecules”

Introduction: Students trying to understand the geometry of molecules often “build” representations of the structure from simple model kits.

Purpose: Gain “hands on” experience in visualizing molecule structures.

Tasks: (1) Create the following structures as a group.

(2) Be able to identify the atoms, bonds, structure name, molecular polarity, and the effects of unbonded electrons (they are not in the kit, but in the Lewis structure).

<u>Molecule</u>	<u>Name of Compound</u>	<u>Valence electrons</u>	<u>Lewis Structure</u>	<u>Molecule Geometry</u>
N ₂				
CO ₂				
H ₂ O				
CH ₄				
C ₃ H ₈				