

Name \_\_\_\_\_

TA's Name \_\_\_\_\_

Section # \_\_\_\_\_

Procedure:

CHECKOUT:

Organic Model Kit

Exploring structural features of simple organic compounds

The goal of this part of the experiment is to get you to feel comfortable with moving between molecular formulas, Lewis structural formulas, and condensed formulas. To reach a reasonable level of comfort you will need to checkout a the model kit from the freshman chemistry storeroom. Each kit should contain:

Number	Color	Atom
10	black	carbon
6	green	chlorine
6	red	oxygen
2	blue	nitrogen
1	yellow	sulfur
22	white	hydrogen

Each packet should also contain 30 1-inch plastic connectors which represent a pair of electrons, either a lone pair or a bonding pair.

PART I. Alkanes

The hydrocarbon compounds with the following molecular formulas are all classified as alkanes.



Your TA will assign you three of the alkanes above. Your assigned alkanes are;

\_\_\_\_\_

Write the Lewis structure, condensed structural formulas and name for each of the alkanes assigned to you.

Condensed structural formula:		
Lewis structure:		

Use the molecular model kit to construct several examples of alkane compounds.