

Honors Chemistry
Worksheet 11-1
Organic Compounds

Name _____

Period _____

1. What is the general molecular formula for alkanes? _____
2. Define chained alkanes.
3. Define branched alkanes.
4. What does the prefix cyclo indicate with alkanes?
5. What is the general molecular formula for cycloalkanes? _____

Draw the structural formulas and write their molecular formulas. Use the molecular model kits to assemble the models of the following hydrocarbons, if needed.

6. CHAINED ALKANES

methane MF _____ propane MF _____ octane MF _____

7. BRANCHED ALKANES

2-methyl pentane MF _____ 3-ethyl hexane MF _____ 2,3 dimethyl butane MF _____

8. ISOMERS OF BUTANE

Name _____ MF _____ Name _____ MF _____

9. CYCLOALKANES

Cyclohexane MF = _____ methyl cyclopentane MF = _____

10. Write the general formula for each of the following.

alkenes _____ alkadienes _____ alkynes _____