

Lab: Organic Molecular Models

Name _____ Period _____

PURPOSE: To **construct** and **draw** the structure of some organic molecules.

Atom colors: Red = Oxygen; Black = Carbon; Yellow = Hydrogen; Green = Fluorine; Purple = Chlorine; Blue = Nitrogen.

For each molecule: A. **Construct** the model. B. **Sketch** the model below and on back. Fill any extra bonds (holes) with hydrogens. *You may use your notes for reference. Write your Critique when done.*

1. 2,2-dimethylpropane	11. 1-chloro-1-fluoro-2-propanone
2. 1,1,2-trifluoro-2-chlorobutane	12. 1-chloro-2,3-butadione
3. 1,1-difluoro-2,3-dichloro-1-propene	13. 2,3-difluoro-1-chlorobenzene
4. 2,3-dimethyl-4-fluoro-1,3-pentadiene	14. 1-methylbenzene (toluene)
5. 1-fluoro-2-bromocyclohexane	15. 1,4-dimethylbenzene (xylene)
6. 1,1-dichloro-1-fluoro-4-methyl-2-pentyne	16. 2-methylpropanonic acid
7. 2,2-dimethyl-1-propanol	17. 1-chloromethyl-2,2,2-trifluoroethanoate
8. 2-chloro-1,4-butadiol	18. The basic unit for polyvinylchloride
9. 1-fluoro-methoxyethane	19. 1,2-dimethylpropylamine.
10. 2-methylpropanal.	20. Your own invention.