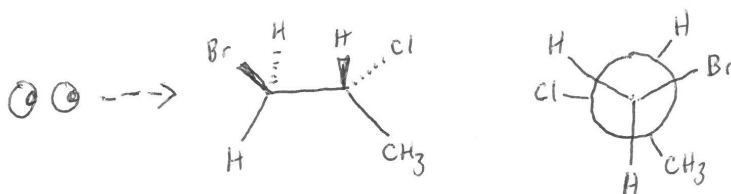
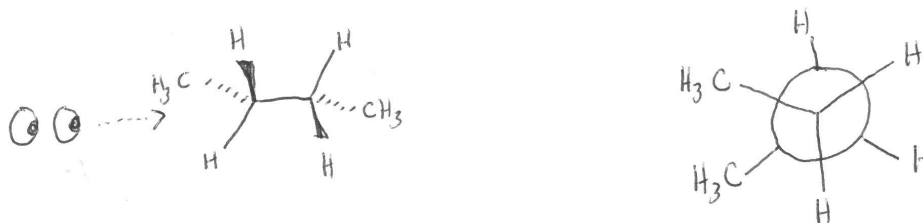
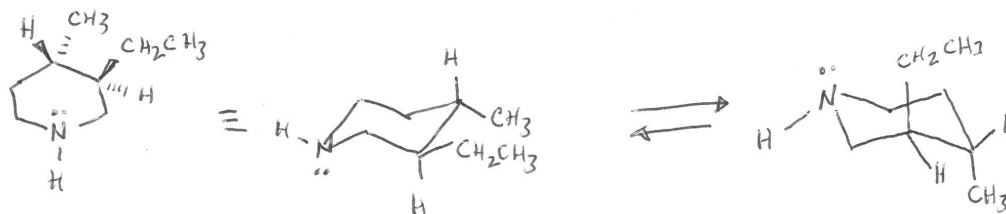
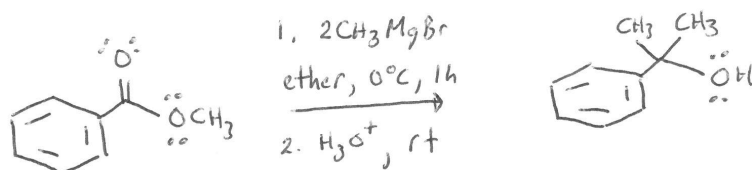


ChemDraw Assignment

Molecules, Conformational Representations and Reaction Schemes

Using the ACS Document 1996 template within ChemDraw, provide accurate renderings of the hand-drawn images below. Pay careful attention to specifications of conformation and and/or stereochemistry. Include in your ChemDraw structures any hydrogens or lone pairs explicitly shown. You can use the link on the 310L web page and your NKU email address to get a copy of ChemDraw on your home computer.

This assignment is due at the beginning of the experiment "Thin Layer Chromatography".

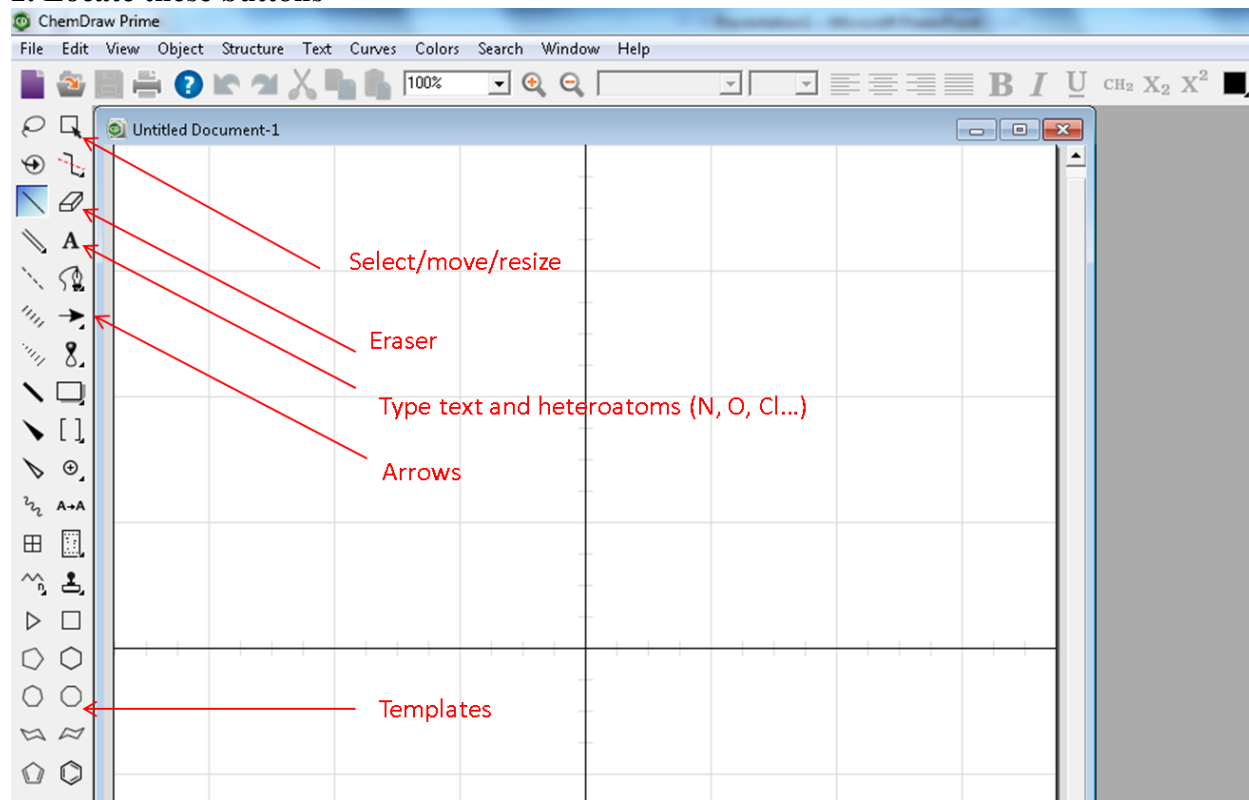


ChemDraw Instructions

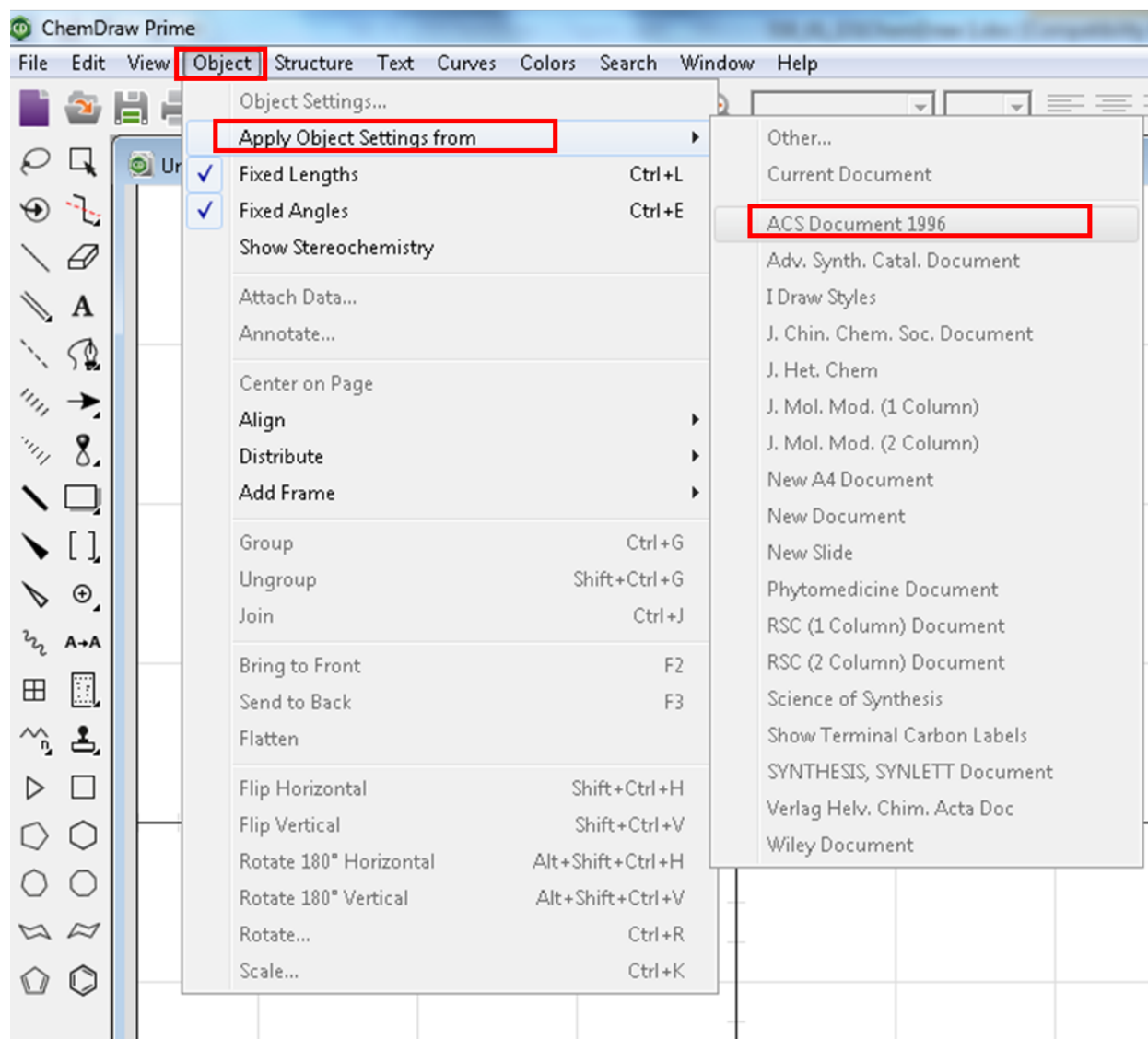
1. Where to download the ChemDraw?

<http://sitelicense.cambridgesoft.com/sitelicense.cfm?sid=2863>

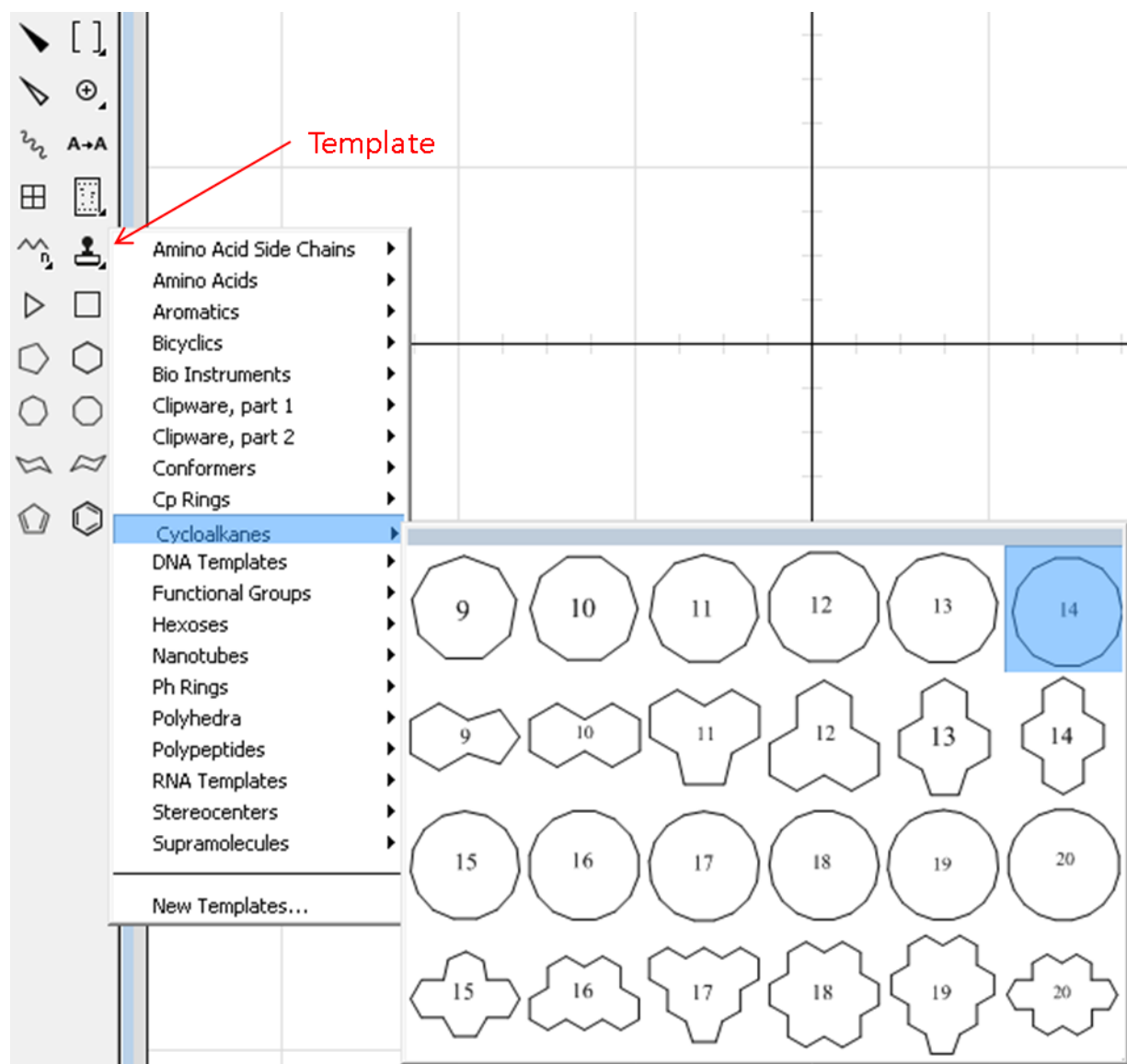
2. Locate these buttons



3. Load standard ACS structure drawing settings:



4. The program has several useful templates included. Left click and hold the template button and move the cursor to desired template and release the mouse.



5. How to show charges on an atom?

The image shows a screenshot of the ChemDraw software interface. The main window displays two cyclohexane rings. The left ring is neutral, and the right ring has a positive charge (+) on the top carbon atom. A toolbar on the left side of the window contains various drawing tools. A sub-toolbar is open, showing options for adding charges. Red arrows point to the following elements:

- Press and hold left mouse**: Points to the top-left corner of the sub-toolbar.
- Positive charge**: Points to the '+' symbol in the sub-toolbar.
- Negative charge**: Points to the '-' symbol in the sub-toolbar.

The sub-toolbar also includes other symbols for adding charges, such as '+', '++', '•+', '••+', and '•••+', as well as symbols for adding negative charges, such as '-', '--', '•-', and '••-'. There are also symbols for adding a positive charge to a specific atom (a circle with a plus sign) and a negative charge to a specific atom (a circle with a minus sign).