**Cyclo – Isomer and**

**Benzene**

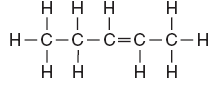
**“Cyclo”: Prefix that means circular. If you see the name of an isomer with “Cyclo” in front it means that these are chains that make rings.**

**Example:**

**C5H10**

**Cyclo Pentane**

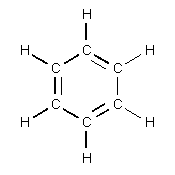
**C5H10**



**Pentene**

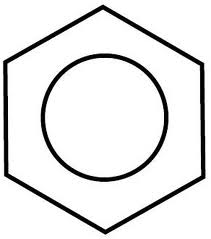
**Benzene: is a very common Cyclo isomer made of 6 carbons and alternating single and double bonds.**

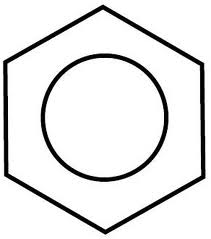
**C6H6**



**Benzene**

**\*\*Since benzene is a very common Carbon chain there is a picture that is shorter than the original.**

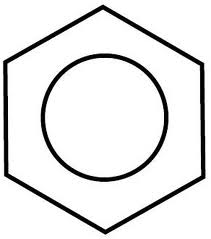
[](http://www.google.com/imgres?imgurl=http://1.bp.blogspot.com/_u5WXQG2FLK4/S6vY4ceSN5I/AAAAAAAAAB4/vK0WUcOyhoE/s1600/benzene.JPG&imgrefurl=http://pandoragaming.co.uk/profile/3815887/&h=330&w=292&sz=16&tbnid=deRTzDejOM8oRM:&tbnh=90&tbnw=80&prev=/search?q=Picture+of+Benzene&tbm=isch&tbo=u&zoom=1&q=Picture+of+Benzene&docid=HMrZX8OcwHnHcM&sa=X&ei=eT6xT4XiBo6m8QSwvOTSCA&ved=0CGgQ9QEwBg&dur=1390)**Benzene**

**[](http://www.google.com/imgres?imgurl=http://1.bp.blogspot.com/_u5WXQG2FLK4/S6vY4ceSN5I/AAAAAAAAAB4/vK0WUcOyhoE/s1600/benzene.JPG&imgrefurl=http://pandoragaming.co.uk/profile/3815887/&h=330&w=292&sz=16&tbnid=deRTzDejOM8oRM:&tbnh=90&tbnw=80&prev=/search?q=Picture+of+Benzene&tbm=isch&tbo=u&zoom=1&q=Picture+of+Benzene&docid=HMrZX8OcwHnHcM&sa=X&ei=eT6xT4XiBo6m8QSwvOTSCA&ved=0CGgQ9QEwBg&dur=1390)**

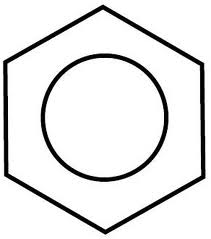
**2 – Chloro Benzene**

**When naming benzene chains you number the carbons by starting at the top and going clockwise. The daughter chains off of benzenes can be smaller carbon chains or single elements.**

**Example:**

**[](http://www.google.com/imgres?imgurl=http://1.bp.blogspot.com/_u5WXQG2FLK4/S6vY4ceSN5I/AAAAAAAAAB4/vK0WUcOyhoE/s1600/benzene.JPG&imgrefurl=http://pandoragaming.co.uk/profile/3815887/&h=330&w=292&sz=16&tbnid=deRTzDejOM8oRM:&tbnh=90&tbnw=80&prev=/search?q=Picture+of+Benzene&tbm=isch&tbo=u&zoom=1&q=Picture+of+Benzene&docid=HMrZX8OcwHnHcM&sa=X&ei=eT6xT4XiBo6m8QSwvOTSCA&ved=0CGgQ9QEwBg&dur=1390)**

**3, 6 – Chloro Bromo Benzene**

**[](http://www.google.com/imgres?imgurl=http://1.bp.blogspot.com/_u5WXQG2FLK4/S6vY4ceSN5I/AAAAAAAAAB4/vK0WUcOyhoE/s1600/benzene.JPG&imgrefurl=http://pandoragaming.co.uk/profile/3815887/&h=330&w=292&sz=16&tbnid=deRTzDejOM8oRM:&tbnh=90&tbnw=80&prev=/search?q=Picture+of+Benzene&tbm=isch&tbo=u&zoom=1&q=Picture+of+Benzene&docid=HMrZX8OcwHnHcM&sa=X&ei=eT6xT4XiBo6m8QSwvOTSCA&ved=0CGgQ9QEwBg&dur=1390)**

**2 – Ethyll Benzene**

**Draw the following:**

1. **Propyne**
2. **Cyclo Butene**
3. **1,3 - Di Ethyll Pentane**
4. **3 – Butyl Benzene**
5. **1, 2, 6 – Tri Methyl Benzene**
6. **Ethyne**