

CHE 310 – 001
Lecture Homework #1

Due: Monday Feb 11, 2019, 10:00 am.

1. Consider the formula next to your name in the table below.
 - a. **Draw** four constitutional isomers of that formula. Hint: $C+1 - ((H+X-N)/2)$
 - b. **Clearly identify and name** one different functional group in each structure. (The same functional group can be present in more than one isomer, but you can only use its name once. You may not use *alkane* or *carbonyl* as functional groups.) No credit will be given for structures which have atoms with formal charges or unfilled valences. Each structure must explicitly show all hydrogens.

Formula	Name
$C_6H_{13}NO$	Brittany Carter
$C_8H_{15}NO$	Eric Chan
C_6H_9OCl	Christian Cummins
$C_6H_{10}O_2$	Taylor Ginther
$C_8H_{13}OI$	Tanner Householder
$C_6H_{13}NO_2$	Linh Nguyen
$C_7H_{14}O_2$	Zachary Nichter
$C_7H_{12}O$	Memory Ntakirutimana
$C_7H_{13}NO$	William Turner
$C_7H_{13}N$	Maggie Ward