Date: Name:

SCH4U1			
Organic Chemistry			

Putting It All Together

Priority of functional groups

Priority of	functional g					
Priority	Functional Group	Condensed Functional Group	Name of Functional Group	Name of Compound	Suffix or Prefix	Name as a Side Group
Highest	R-C,04	-СООН	Carboxyl group	Carboxylic Acid	-oic acid	Carboxy-
K	1- C - D-1	-C(0)0C-	Ester linkage	Ester	-oate	Alkoxycarbonyl-
M	- (- N	-CONH ₂	Amide group	Amide	-amide	Amido-
12	- C-H	-СОН	Formyl group	Aldehyde	-al	Formyl-
ti	0 - C - K'	-CO-	Carbonyl group	Ketone	-one	Oxo-
	12-0H	-ОН	Hydroxyl group	Alcohol	-ol	Hydroxy-
	12-04 12-N-H	-NH ₂	Amino group	Amine	-amine	Amino-
	N-0-R'	-COC-	Alkoxy group	Ether	-oxy	Alkoxy-
	() r	-Ph	N/A	Benzene	N/A	Phenyl-
	 	-C=C-	N/A	Alkene	-ene	Alkenyl
	RER	-C□ C-	N/A	Alkyne	-yne	Alkynl-
1	1 - R	-C-C- /	Alkyl group	Alkane	-ane	Alkyl-
Lowest	れたか	-CX	N/A	Haloalkane	Fluoro- Chloro- Bromo- Iodo-	Fluoro- Chloro- Bromo- Iodo-

Date: Name:

Compounds with more than one functional group

Naming

- 1. Identify highest priority functional group.
 - a. Identify all functional groups.
- $2. \ \ Identify \& number longest chain containing highest priority functional group.$
 - a. If 2 chains of same length, choose the chain with the most functional groups.
- 3. Identify & assign numbers to side groups.
- 4. Assemble parts of the name of the compound.
 - a. Make sure side groups are listed in alphabetical order

Drawing

- 1. Identify & draw highest priority group.
- 2. Identify, draw & number parent chain.
- 3. Identify & draw side groups.
- 4. Add hydrogen atoms to give each carbon atom a total of 4 bonds.

Benzene derivatives with functional groups

IUPAC Name	Benzenol	Benzenamine	Benzenecarboxylic acid
Structure			
Str detare			

Try	these!

B T			
NI.	am	ın	T:
146	411 1		ız.

Drawing;