Name:_		
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Chemistry 11 Organic Chemistry Lesson #4 The 8 Functional Groups

The 8 FUNCTIONAL GROUPS INCLUDE:

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1.	5.	
2.	6.	
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3.	7.	
4.	8.	
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A functional group is a specific grouping of atoms which exists in a hydrocarbon and gives the molecule the ability to react in a specific manner or gives it special properties

Of the eight functional groups you are responsible for knowing how to name:

- 1.
- 2.
- 3. While for the remaining groups you must be able to recognize their formulas and structures.

ALCOHOLS- are organic compound that contain an "OH" group attached to a carbon in the carbon backbone:

RULES for naming alcohols:

- 1.
- 2.
- 3.

Example 1:Name the following alcohols

ALDEHYDES:- organic compounds that contain a HC=O group at the end of the compound EXAMPLE:

KETONES: - organic compounds that contain a C=O group in the middle of the compound. Example:

ETHERS: - organic compounds that contain an "O" group in the backbone of the compound. Example:

ORGANIC ACIDS or CARBOXYLIC ACIDS: - organic compounds that contain a O=C-OH group at the end of the compound Example.

AMINES: - organic compounds that contain a NH_2 group at the end of the compound. Example:

AMIDES: - organic compounds that contain a $O=C-NH_2$ group at the end of the compound. Example:

ESTERS: - organic compounds that contain a -O-C=O group in the backbone of the compound. Example:

HOMEWORK: Exercise #37