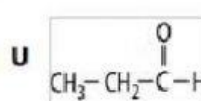
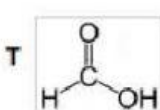
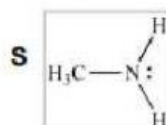
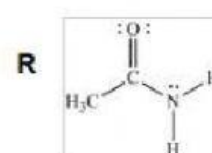
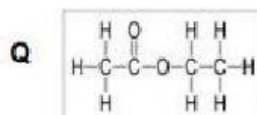
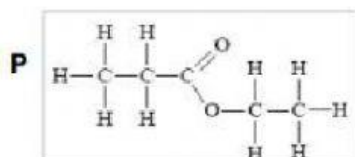
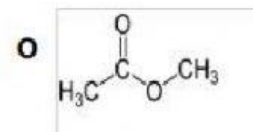
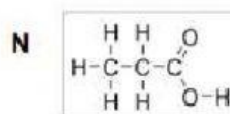
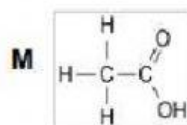
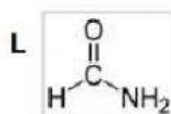
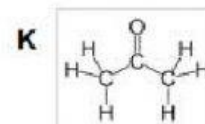
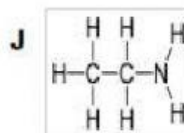
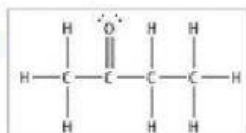
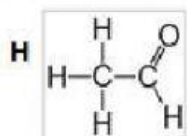
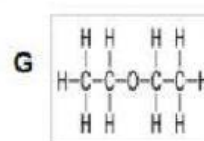
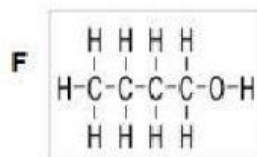
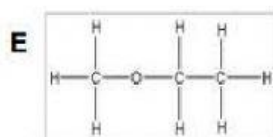
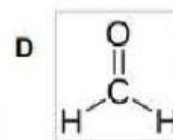
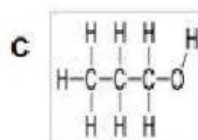
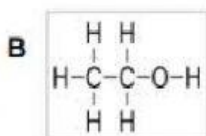
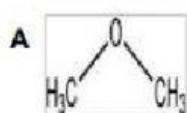




NAME: _____ GRADE: _____ SCORE: _____

1. Group the following molecules according to their similarities in structure. Organize these molecules in the table just by writing the letter that represent them. Do not forget to indicate the categories or classifications that made you decide why these molecules belong to the group. Have fun doing this activity. Good luck!



NOTE: Pay less attention to the number of carbon atoms. Give more attention to the elements or group of elements attached to carbon chain and to the type of bonds present in the structure.

CHEMISTRY 11th
ORGANIC FUNCTIONAL GROUPS CLASSIFICATION

Complete the table.

CATEGORIES / CLASSES					
organic compound with _____ attachment	organic compound with _____ attachment	organic compound with _____ attachment	organic compound with _____ attachment	organic compound with _____ attachment	organic compound with _____ attachment

2. Write the elements and the bonds that distinguish one functional group from the other:

Example: Alkanes: CARBON AND HYDROGEN, SIMPLE BOND

Alcohol

Aldehyde

Ketone

Carboxylic Acid

Ester

Ether

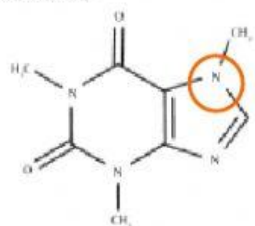

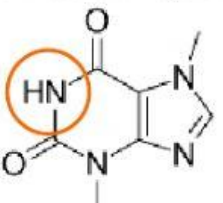
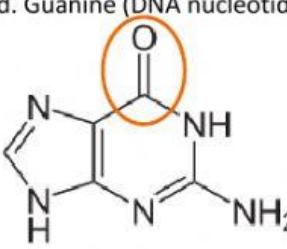
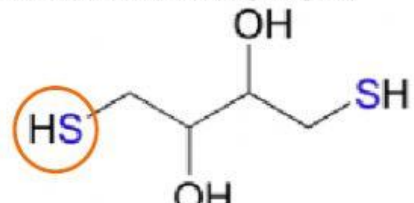
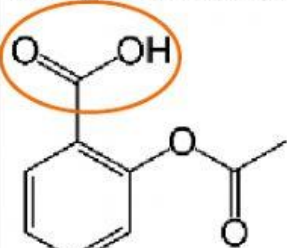
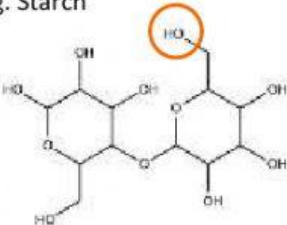

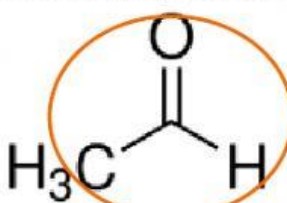
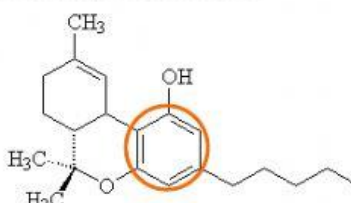
Amine

Amide

Phosphate



3. Identify the indicated functional group in the following molecules:

<p>a. Caffeine</p>  <p>Indicated Functional Group: _____</p>	<p>b. Serotonin</p>  <p>Indicated Functional Group: _____</p>
<p>c. Theobromine (Chocolate main compound)</p>  <p>Indicated Functional Group: _____</p>	<p>d. Guanine (DNA nucleotide)</p>  <p>Indicated Functional Group: _____</p>
<p>e. dithiothreitol (oxidizing reagent)</p>  <p>Indicated Functional Group: _____</p>	<p>f. Acetilsalicylic acid (aspirin)</p>  <p>Indicated Functional Group: _____</p>
<p>g. Starch</p>  <p>Indicated Functional Group: _____</p>	<p>h. Ethanol (liquor)</p>  <p>Indicated Functional Group: _____</p>
<p>i. Acetaldehyde (disinfectant)</p>  <p>Indicated Functional Group: _____</p>	<p>j. Tetrahydrocannabinol</p>  <p>Indicated Functional Group: _____</p>

