Unit 6: Intermolecular Forces & VSPER **Name _____**
Organic Chemistry Homework **Block # ____**

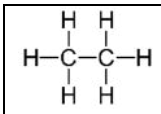
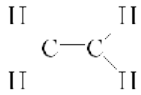
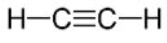
1. **Organic chemistry** involves molecules that are called hydrocarbons because they contain hydrogen and carbon.

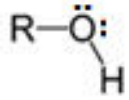
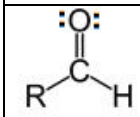
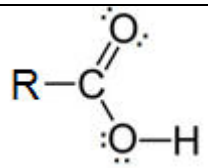
2. Hydrocarbons often have functional groups attached that change their physical and chemical properties.

Write the organic names based on the length of the chain, type of bond, or functional group attached

Formula	Organic Name
CH_4	Methane
CH_3CH_3	Ethane
$CH_3CH_2CH_3$	Propane

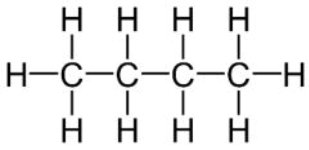
Formula	Organic Name
CH_3OH	Methanol
CH_3CH_2OH	Ethanol
$CH_3CH_2\ CH_2OH$	Propanol

	Ethane
	Ethene
	**Eth**yne (also known as ***acetylene***)

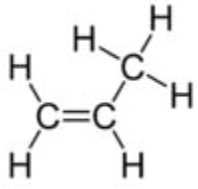
	What type of group is this? Alcohol
	What type of group is this? Aldehyde
	What type of group is this? Carboxylic Acid

Write the formula and draw the following molecules:

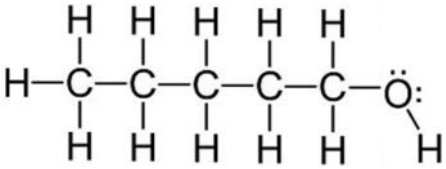
but**a**ne $CH_3CH_2CH_2CH_3$ or C_4H_{10}



prop**e**ne $CH_2{=}CH_1CH_3$ or C_3H_6



Pent**anol** $CH_3CH_2CH_2CH_2CH_2OH$ or $C_5H_{11}OH$



ethan**oic acid** CH_3COOH or $HC_2H_3O_2$