

Unit 6: Intermolecular Forces & VSPER
Organic Chemistry Homework

Name _____

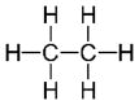
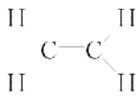
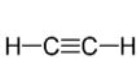
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
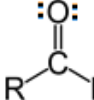
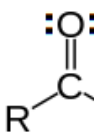
1. **Organic chemistry** involves molecules that are called **hydrocarbons** because they contain **hydrogen** and **carbon**.
2. Hydrocarbons often have **functional** groups attached that change their physical and chemical properties.
3. Increasing a hydrocarbon's chain length, **raises** the boiling point and **raises** the melting point.
4. **Double** and **Triple** bonds result in a(n) **unsaturated** hydrocarbon structure.

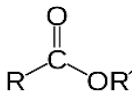
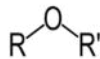
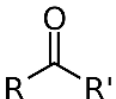
Write the organic names based on the length of the chain, type of bond, or functional group attached

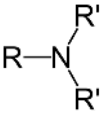
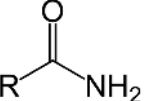
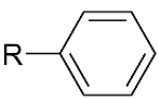
Formula	Organic Name
CH ₄	Methane
CH ₃ CH ₃	Ethane
CH ₃ CH ₂ CH ₃	Propane

Formula	Organic Name
CH ₃ OH	Methanol
CH ₃ CH ₂ OH	Ethanol
CH ₃ CH ₂ CH ₂ OH	Propanol

	Ethane
	Ethene
	Ethyne (also known as <i>acetylene</i>)

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

	What type of group is this? Ester
	What type of group is this? Ether
	What type of group is this? Ketone

	What type of group is this? Amide
	What type of group is this? Amine
	What type of group is this? Phenyl

For more practice identifying functional groups visit: <http://www.sciencegeek.net/APchemistry/organic/functional.htm>