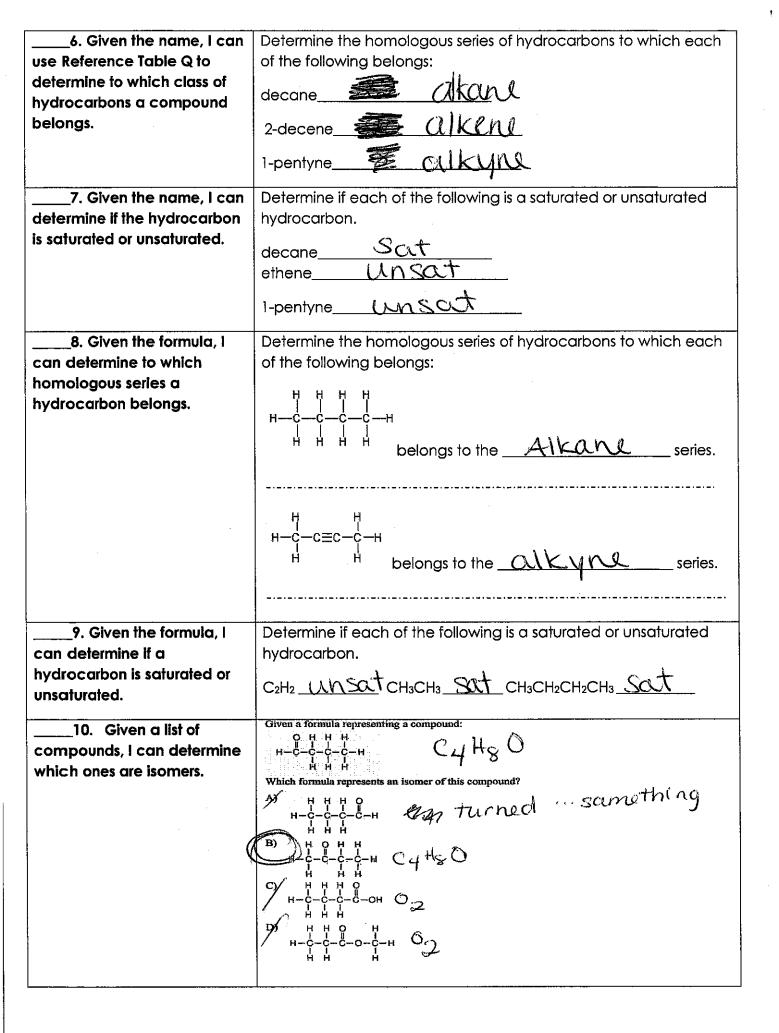
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NameKU	Unit 12: Organic Chemistry Period
	Definitions:
	organic compound: Complex mol containing
1. I can define organic compound, saturated	saturated hydrocarbon: Single bonded
hydrocarbon, unsaturated	alkane
hydrocarbon, and isomer.	unsaturated hydrocarbon: Doubte or triple Bondled aikenelyin
	isomer: molecules w/ same molecular
	formula but different structures.
2. I can expand a condensed structural formula to show the structural formula of an organic compound.	Draw the complete structural formula for CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> .
	Draw the complete structural formula for CH3CHCHCH3.
3. I can state the name and symbol of the element that is capable of forming rings, chains, and networks.	The element that is capable of forming rings, chains, and networks is  Carbon  Its symbol is
	Its symbol is
4. Given the formula, I can determine if a compound is a hydrocarbon or not.	Which formula represents a hydrocarbon?  A) CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CHO B) CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> C) CH <sub>3</sub> CH <sub>2</sub> COOH D) CH <sub>3</sub> CH <sub>2</sub> COOCH <sub>3</sub>
5. Given the name, I can	Determine how many carbon atoms are in each of the following
use Reference Table P to determine how many carbons	compounds:
atoms are in a compound.	decaneethene
	3-nonene

1-pentyne\_\_



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11. Given a structural formula, I can use Reference Table R to identify to which class of organic compounds a substance belongs.	Which structural formula represents a ketone?  A) H H H C C O OC	Given the structural formula:  H H H H H H-C-C-C-C-C-H H H H H H  The compound represented by this formula can be classified as an  A) organic acid B) other C) ester B) aldehyde
	Given the formula:  H H H O  I I I H  H-C-C-C-C-N  H H H H  This compound is classified as  A) an aldehyde  B) an amide  C) an amine  D) a ketone	Given the formula for an organic compound:  HHHHHO H-C-C-C-C-C-OH HHHH  This compound is classified as an  A) aldehyde B) amine C) ester D) organic acid
12. I can use Reference	Name the following hydrocarbo	ns.
Tables P & Q and IUPAC nomenclature to name simple hydrocarbons.	н н н 	2-pentene
	# H H H H H H H H H H H H H H H H H H H	3-heptyne
	H H H H H H H H H H H H H H H H H H H	nonane
	H H H H H H-C-C-C-C-C-C-H H H H H H	2-hexene

13. I can use Reference	Name the following organic compounds.					
Tables P & R and IUPAC nomenclature to name simple compounds in any of the	H H H H H H H H H H H H H H	H-C-C-C-C-C				
classes of organic compounds.	butane 2 butanone	butanoic Acid				
	H H H H H H H H H H H H H H H H H H H	H-CCCN H-CCCN				
	2 butene 1-butanol	1-butanamine				
	H + H + H + H + H + H + H + H + H + H +	H H H O H				
	2 butyne butanal	<u>butanamide</u>				
	H H H H H H H O H H H O H H H H H H H H	H H H H H—C—C—C—O—C—H H H H H				
	1 Bromo butane methy lethanoale	methyl progrether				
14. I can use F-SCAPES to list and describe the 7 types of	F stands for fermentation. This type	e of organic				
organic reactions.	reaction results from a reaction of Sugar to form					
	a catalyst, in the form of an enzyme to occur.					
	S stands for Substitution. This type of organic					
	reaction happens when <u>Siturcited</u> hydrocarbons					
	replace one of thefor some other element (often a halide).					
	C stands for Combustion . In this type of organic					
	reaction a hydrocarbon reacts with  Og to form Water and					
	to form Water	and				

	. It is an exothermic reaction.						
	A stands for <u>addition</u> . In this type of organic reaction						
	an <u>Alkene or Alkyne</u> becomes a						
	when the double bond breaks and two atoms of another element (often a halide) are added.						
15. I can use F-SCAPES to list and describe the 7 types of	P stands for polymerization. In this type of organic						
organic reactions. (continued)	reaction many <u>C'S</u> are linked together to form a						
	A generalized form of this reaction looks like this						
	Note: I) and n are very large numbers equal to about 2000.						
	$n \begin{pmatrix} H \\ H \end{pmatrix} c = c \begin{pmatrix} H \\ H \end{pmatrix} \begin{pmatrix} H \\ -C \\ -C \\ H \end{pmatrix} \begin{pmatrix} H \\ H \\ H \end{pmatrix}$						
	E stands for esterification. In this type of organic						
	reaction an ACIO reacts with a						
	to form an <u>eSter</u> and <u>Water</u> . The products of this reaction are typically fragrant.						
	S stands for Soponification. In this type of organic						
	reaction a +CC reacts with a +CC to form						
	You can really "clean up" if you remember this organic reaction.						
16. Given an equation, I can	Given the balanced equation for an organic reaction: Given the equation:						
identify the type of organic reaction that is occurring.	$C_2H_2 + 2Cl_2 \rightarrow C_2H_2Cl_4 \qquad \qquad H H H H H H H H H H H H H H H H H $						
6	A) addition  B) esterification  C) fermentation  D) substitution  Which type of reaction is represented by this equation?						
	A) combustion B) esterification C) polymerization D) substitution						
	Given the equation:  C <sub>2</sub> H <sub>6</sub> + Cl <sub>2</sub> → C <sub>2</sub> H <sub>5</sub> Cl + HCl Given the reaction:						
	$C_2H_6+CI_2 \rightarrow C_2H_5CI+HCI$ Given the reaction:  O  This reaction is best described as $C_2H_6+CI_2 \rightarrow C_2H_5+H_2O$ $C_2H_6+CI_2 \rightarrow C_2H_5+H_2O$						
	A) addition involving a saturated hydrocarbon  B) addition involving an unsaturated hydrocarbon  This reaction is an example of						
	C) substitution involving a saturated hydrocarbon D) substitution involving an unsaturated hydrocarbon C) hydrogenation D) esterification						

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