X-BOX OVERVIEW; ORGANIC CHEMISTRY REVIEW

ORGANIC CHEMISTRY

Topics and Objectives:

- 1. Review chemical bonding topics; covalent bonding, VSEPR theory, molecular shape, polarity, bond dipoles, intermolecular bonding, comparing melting and boiling points
- 2. Review Organic Chemistry topics; organic families, homologous series, patterns in chemical and physical properties, chemical reactions, isomers, aliphatic, aromatic, cyclic structures, saturated versus unsaturated

How is it assessed?

- 1. Work in pairs. You pick your partner. I will need to know your partner's name on the PowerPoint submission only.
- 2. Copy each slide and write your answers on the new slide right after the question slide. For example you will start with slide #3 and add a new slide following that and provide the answer on that. These are meant to be made as cubes at the end of the unit for class revision.
- 3. Students can work on the assessment individually, discuss answers to check understanding and submit only 1 per group on google classroom.





	Chemical Bonding #C-				
	C bonds#C-O bonds				
	#C-H bondsmolecular shape(s)				
	#C=O bondspolar or non-polar				
	IUPAC Name of Compound:				
Chemical General Info C.H.O. The		Melting/Boiling Point			
values for:		Comparison			
X:	н-с″нн	ls the boiling point of the substance higher or lower			
Y:	`	than methylmethanoate?			
Z:		Higher bp due to higher			
 Molar Mass:	_ H H	mass and LD forces			
Reactant Compounds to Make the Substance in the Box: Alcohol:					
Show the balanced equation to produce the compound using the reactants determined					
		\mathbf{X}			
		\mathbf{X}			

Physical and Chemic	Chemical Bonding; Intramolecular #C-C bonds#C-O bonds#O-H bonds #C-H bonds#C=O bonds polar or non- polar molecular shape(s) Organic Family:	
Properties: Sour or bitter: Reaction with: Red Litmus Blue Litmus	butanoic acid	Types of Intermolecular Bonds: # electrons: Dipole-dipole: H-bonding:
	Chemical Reactions: Draw all the organic substance and predic products 1. Compound + NaOH> Reaction type: Name of products: 2. Compound + propan-1-oI>	ct the
	Reaction type: Name of products:	





\sum		Chemical Bonding					
	#C-C bonds	#C-CI bonds					
	#C-H bonds						
	polar or non-polar						
	Types of Intermole	cular Bonds:					
Melting/Boiling Poi	int		Organic Family:				
Comparison: Does the compound in t box have a higher or lov boiling point compared ethane?	he /er	H H 	Molecular Shape:				
	to F	I-C-C-CI H H	IUPAC name of com- pound in box:				
Chemical Reactions: predict the reactants or products							
	1. Compound + NaOH>						
	Reaction type: 2. + H	Name of products:	-				
	Reaction type:	Name of reactant:	_				























