Cornell Notes	Topic/Objective: Empirical and Molecular		Name:	
	Formulas		Class/Period: Chemistry	
			Date:	
Essential Questic	ons: How	can you determine the formula for a compound?		
Questions:		Notes:		
What is an				
empirical formula?				
What are the steps		1.		
for calculating an		2.		
empirical formula?				
		3.		
		4.		
1 ⁺¹		Methyl acetate is a solvent commonly used in some paints, inks,		
I זוזד	-1	and adhesives. Determine the empirical formula for methyl acetate,		
		which has the following chemical analysis: 48.64% carbon, 8.16%		
Hydrogen 1.008 Is 6^{+2}_{+4}		hydrogen, and 43.20% oxygen.		
	-4			
Carbon p 12.011				
	-2			
Oxygen 15.999				

What is a		
molecular formula?		
What are the steps	1. Change percent to grams	
for calculating an	2. Divide each element by its atomic mass (changes value to moles)	
empirical formula?	3. Divide each mole value by the smallest mole value	
particles?	4. If you don't have whole numbers for your moles multiple until they are whole	
	5.	
1 ⁺¹		
TRT	Succínic acid is a substance produced by lichens. Chemical	
Hydrogen	analysis indicates it is composed of 40.68% carbon, 5.08%	
1.008 <u>1s</u>	hydrogen, and 54.24% oxygen and has a molar mass of 118.1	
6 +2	g/mol. Determine the empirical and molecular formulas for	
U _4	succínic acid.	
Carbon 12.011		
8 -2		
\square \square \square		
Oxygen		
p 15.999		
Summary:		