Name:	Date:	Pd:
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LECTURE NOTES.

ADDITIONAL NOTES:	

Lesson #4:

Student Notes: Moles and Molar Mass

Learning Target - Goes There →			
Chemistry can save your life?	If you were going to live in space or on mars, what would be your biggest concern? Answer:		
Who discovered the mole?	Avogadro first theorized the mole in and was confirmed by 1909. Avogadros #:		
	Conversion Factor:		
	grams ^{molar mass} moles ^{Avagadro's #} atoms molecules		
MUST WATCH VIDEO!!			
Question			
Quostion.	How many donuts are there in? 1. (1) dozen donuts =		
	2. (2) dozen donuts =		
	3. (3) dozen donuts = 4. (4) dozen donuts =		
	5. (4.5) dozen donuts =		
Key Definitions:	<u>Definition</u> : MOLE -		
	1 mol =		

	or	
	1 mol =	
	Definition: MOLAR MASS - 1	
	Example: Molar Mass =	
	1 mole H 1 mole O	
	Molar Mass of H ₂ O (#of atoms per element) x (atomic mass per element)	
	H x = g/mol	
	O x = + g/mol	
	Molar Mass H ₂ O =	
Calculating Molar Mass	Find Molar Mass of CaCl ₂	
Step 1: Find # of Atoms	Ca x = g/mol	
Step 2: Add up total masses to find molar	Cl ₂ x = + g/mol	
mass	Molar Mass CaCl ₂ =	
Step 3: Units = g/mol		

Example Molar Mass	Find Molar Mass	lar Mass of the following Molecules		
Problems:	Molecule	Work		
WORK WITH A PARTNER!!!	CO ₂			
	H ₂ SO ₄			
	C ₆ H ₁₂ O ₆			
	Mg(NO ₃) ₂			

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