This file was downloaded from the American Curriculum website





Worksheet Conversions Moles to Grams and Grams to Mole الملف

<u>Almanahj Website</u> \rightarrow <u>American curriculum</u> \rightarrow <u>9th Grade</u> \rightarrow <u>Chemistry</u> \rightarrow <u>Term 1</u> \rightarrow <u>The file</u>

More files for 9th Grade, Subject Chemistry, Term 1			
Worksheet about Chemistry	1		
Chemistry Worksheet	2		
Worksheet about fundamentals of organic reactions	3		
Worksheet about Chemistry Pharmaceutics	4		
Worksheet about Fundamentals Of Organic Chemistry	5		
Worksheet about Ionic chemical formula	6		
Worksheet about Conversions	7		

****LIVEWORKSHEETS**

Name	D	ate	Per		
V <u></u>	Mole to Grams, Gra	ams to	Moles Conversio	ns Worksheet	
То	o find moles divide molar mass		To find grams mu	ltiply molarmass	
What	are the molecular weights of the fo	ollowing c	compounds?		
1)	NaOH	2)	H ₃ PO ₄		
3)	H ₂ O	4)	Mn_2Se_7		
5)	$MgCl_2$	6)	(NH ₄) ₂ SO ₄		
Each	definition can be written as a set	of two c	onversion factors. They	/ are:	
1 mol	e = molar mass(g) can be written	ı as =	1 mole molar mass (g)	$R \qquad \left(\begin{array}{c} \underline{\text{molar mass (g)}} \\ 1 \text{ mole} \end{array} \right)$	
Solve	any 5 of the following:				
1)	How many moles are in 15 gram	ns of lithi	um?		
2)	How many grams are in 2.4 moles of sulfur?				
3)	How many moles are in 22 gram	ns of argo	n?		
4)	How many grams are in 88.1 moles of magnesium?				
5)	How many moles are in 2.3 grams of phosphorus?				
6)	How many grams are in 11.9 moles of chromium?				
7)	How many moles are in 9.8 gran	ns of calc	cium?		
8)	How many grams are in 238 mc	oles of ars	enic?		
Unit -	- 4 Moles and Stoichiometry			Page 1 of 2	

BLIVEWORKSHEETS

Solve any 5 of the following:

- 9) How many grams are in 4.5 moles of sodium fluoride, NaF?

 (molar mass of NaF is 23 + 19 = 42 g/ mole)
 4.5 moles x 42 grams = 189 grams NaF OR 4.5 moles x 42 g = 189 g
- 10) How many moles are in 98.3 grams of aluminum hydroxide, Al(OH)₃?

 (molar mass of Al(OH)₃ is 27 + (3 x 16) + (3 x 1) = 78 g/ mole)

 98.3 grams x 1 mole = 1.26 moles Al(OH)₃ OR (98.3g/78g = 1.26 moles)

 78 grams
- 11) How many grams are in 0.02 moles of beryllium iodide, Bel₂?
- 12) How many moles are in 68 grams of copper (II) hydroxide, Cu(OH)₂?
- 13) How many grams are in 3.3 moles of potassium sulfide, K₂S?
- 14) How many moles are in 1.2 x 10³ grams of ammonia, NH₃?
- 15) How many grams are in 2.3 x 10⁻⁴ moles of calcium phosphate, Ca₃(PO₃)₂?
- 16) How many moles are in 3.4 x 10⁻⁷ grams of silicon dioxide, SiO₂?
- 17) How many grams are in 1.11 moles of manganese sulfate, Mn₃(SO₄)₇?

Page 2 of 2