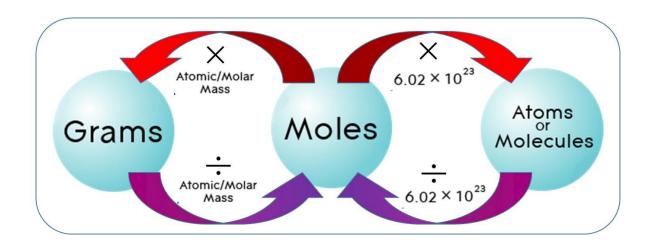


NUEVO COLEGIO DEL PRADO

Science 9th Grade

Guía de Trabajo Semana 10, 8-12 Junio 2020

Email: mrsciencencp@gmail.com



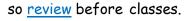
This week during classes we will review the conversions using:

- 1. MOLAR MASS
- 2. AVOGADRO'S NUMBER



1. Attend and participate in class, please bring calculator, periodic table, and notebook and be <u>ready to WORK!</u>

2. A kahoot quiz of conversions will be done on FRIDAY







CONVERSIONS THAT INVOLVE MOLES WORKSHOP

Send this before Friday to my Email: mrsciencencp@gmail.com (send the evidences of your work)

1. A scientist started measuring some samples of chemicals she found in his laboratory.









Using a electronical scale she measured the amount of grams. These were the results:







IMPORTANT: Don't use these chemicals when cooking. :p

Complete the table. (1,7)

Compound	Chemical Formula	Molar Mass (g/mol)	Sample Mass (grams)	Moles present in the sample (mol)
Sulfuric Acid	H₂SO ₄		23	
Nitric Acid	HNO₃		158	
Sulfur trioxide	SO3		268	
Iron oxide	Fe2O3		322	
Ammonia	NH3		71	
Sodium hypochlorite	NaClO		52	
Potassium Hydroxide	кон		0.56	

2. We found two substances in two different recipients. Each recipient had a label that showed: "1 mol". (1,0)

The first one contains Calcium Oxide (CaO) and the second Cupric Sulfate CuSO4.

- a) Which one of the two recipients contains more grams? Explain (Convert to grams)
- b) Which one contains more particles? Explain (Convert to particles using Avogadro's number)

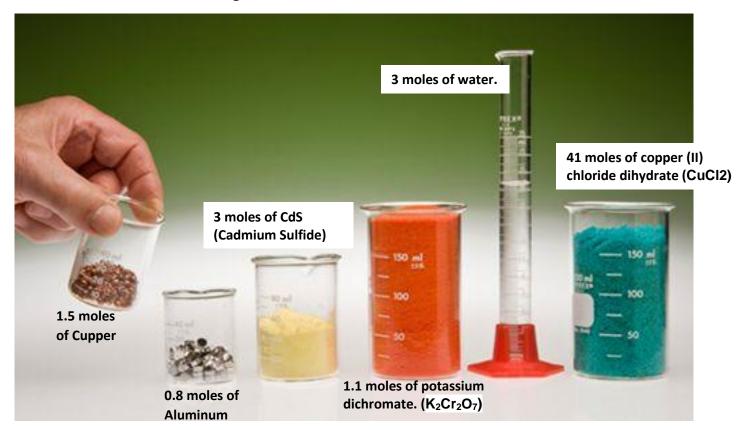




Rec. 1

Rec. 2

3. Convert from moles to grams. (1,7)



- 4. Convert to # of particles. (atoms or molecules, depends of the substance) (0.6)
 - A. How many molecules is 1.50 moles of CO2?
 - B. How many molecules is 2.03 moles of Al2(504)3?
 - C. How many atoms are 4.52 moles of carbon?
 - D. How many molecules are 2.50 moles of H2O?



Este trabajo es nota para el 40%: enviar desarrollado antes del viernes ya sea en la libreta o en hojas pero debe estar hecho a MANO. Colocar en asunto:

CONVERSIONS WORKSHOP NAME LAST NAME

mrsciencencp@gmail.com