

Name: _____ Date: _____ Period: _____

What happened to
Avogadro when he
got bit by 6.02×10^{23} mosquitoes?
He got Mol-aria

POGIL- Stoichiometry

How do chemists use balanced chemical equations?

Why?

Chemists use balanced chemical equations as a basis to calculate how much reactant is needed or product is formed in a reaction. This is called **Stoichiometry**- (stoi-key-ah-meh-tree) Another way of looking at it is using the mole ratio from the balanced equation and information about one compound in the reaction to determine information about another compound in the equation. A mole ratio is a conversion factor derived from the coefficients of a balanced chemical equation interpreted in terms of moles. In chemical calculations, mole ratios are used to convert between moles one thing and moles of another.

Purpose: In this activity we will address the question: *How do I convert between different chemical species in a given reaction?*

MODEL 1: Mole-to-Mole Stoichiometry (1-step)

Example: mole-to-mole

Question: Given the following equation:



How many moles of H_2 are needed to produce 34.8 moles of NH_3 ?

Mole ratio

Answer:

$$\frac{34.8 \text{ mol NH}_3}{1} \times \frac{3 \text{ mol H}_2}{2 \text{ mol NH}_3} = 52.2 \text{ mol H}_2$$

Key Questions:

1. What was the given in the example above?
2. Where did the $\frac{3 \text{ mol H}_2}{2 \text{ mol NH}_3}$ come from?
3. Double check to see if 52.2 moles of H_2 is the correct answer. SHOW the math below.

Pogil Mole Answers

George Henderson (mole catcher.)



Pogil Mole Answers:

Chemists' Guide to Effective Teaching Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry **Process Oriented Guided Inquiry Learning (POGIL)** Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes **Analytical Chemistry** Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more **Journal of Engineering Education** , 2006 *Chemistry* Richard S. Moog, John J. Farrell, 2014-01-13 Chemistry A Guided Approach 6th Edition follows the underlying principles developed by years of research on how readers learn and draws on testing by those using the POGIL methodology This text follows inquiry based learning and correspondingly emphasizes the underlying concepts and the reasoning behind the concepts This text offers an approach that follows modern cognitive learning principles by having readers learn how to create knowledge based on experimental data and how to test that knowledge *Moles* University of Florida. Agricultural Experiment Station, J.R. Watson, 1945 **There's a Mole in My Garden** Carol Wolff, 2006-03-22 A story of a child looking for answers in life She and Grandpa take a journey to find the right answer A reminder to all of us that God is the one with a plan for each of our lives All you have to do is believe **Mole Books** Armaan J. Sarna, 2016-03-04 From a Policeman to a Baker and then a Veterinarian Mole Books Mole Calls the Policeman A Visit to the Baker and Mole Takes Woofie to the Vet shares three informative short stories colorfully illustrated about Mole the protagonist and his interaction with some important community helpers The journey through the colorfully illustrated pages is certain to delight the minds of young children while educating them at the same time giving them answers to their many Who s Why s How s and What s Mole discovers who is stealing vegetables from his mother s home vegetable garden and calls the police for assistance Baker Tim invites Mole and his sister Molie into his kitchen behind his Bakery and shows them how to make the delicious bread sold at the bakery In the third story Woofie the sweet family pet is ill so Mama Mole

Mole and baby sister Molie visit Dr Rachael the veterinarian with Woofie to help him get better This colorful picture book the second in the Mole Books Community Helpers series for little children answers questions little ones may have about the world around them With colorful illustrations it offers insight into a variety of people who play important roles in our lives Mole their Mole is a good little sole in teaching little children good things he plays an important role Mole Stephen Savage,2008-07-15 Introduces moles discussing their physical characteristics habitat life cycle food and predators **Mole** Devin Haines,2020-10-21 *Life and history of the mole* George Henderson (mole catcher.),1883 *The Mole* Kenneth Mellanby,1971-01-01 **Mighty Mole and Super Soil** Mary Quattlebaum,2015-09 Although considered by some to be pests moles are highly beneficial animals very strong and remarkable in many ways This picture book presents the fictional yet scientifically accurate story of a mole Back material presents educational activities The Secret Life of Moles Liz Burgess,2019 *Mole Books* Armaan J. Sarna,2016-03-04 From a Chef to a Painter and to the Principal and Physical Education Teacher Mole Books shares three beautifully illustrated short stories about Mole and his interaction with some important community helpers who young children may then be able to identify independently Chef Joe allows Mole to help him create special foods to celebrate Mole's fourth birthday They make pizza cheese sandwiches French fries and a yummy chocolate cake decorated with colorful gem candy Painter Jim lets Mole work with him in painting the shed together they design a colorful masterpiece and in the process learn about primary and secondary colors In the third story the school principal and physical education teacher while imparting valuable life's lessons sponsor a day at the track where Mole gets to show his running prowess This picture book for children answers questions little ones may have about the world around them With colorful illustrations it offers them insight into a variety of people around us who play important roles in our daily lives Mole and Shrew Find a Clue , *Mole Books* Armaan J. Sarna,2016-03-04 From a gardener to a doctor and a plumber Mole Books Mole Wants to be a Firefighter Mole the Gardener Mole Visits the Doctor and The Plumber Visits Mole House shares four short stories about Mole and his interaction with some important community helpers In the first story Mole dreams of being a brave firefighter who can save the day he wants to be a community helper The second story tells how Mole loves to work in the family's vegetable garden and how he's especially happy when Gardener Gina comes to help When Mole's cousin Beaver hurts his leg Mole meets Dr Phillips the Mole Town pediatrician In the fourth and final story the family calls Plumber Parker when Mole discovers a leak in the garden faucet The third in a series this picture book for children answers questions little ones may have about the world around them With colorful illustrations it offers insight into a variety of people who play important roles in life Adventures of Mole ,1996 **Maybe, a Mole** Julia Cunningham,1974 Five adventures of Maybe a mole that can see **The Mole Book** Theresa Nurre,2020-06-15

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