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POGIL-The Mole Concept (How can atoms be counted?)

Why?

Consider the following equation for a chemical reaction: $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$

This can be interpreted as two molecules of hydrogen and one molecule of oxygen combining to form two water molecules. But how often do chemists limit their reactions to one or two molecules? Usually a reaction is done with an unimaginable number of molecules. How then do chemists know they have the right mix? The molecules need to be quickly counted! How do we count molecules? The answer is the unit called the **mole**. Weighing is often easier than counting!

Model 1: The Balanced Equation

How can the coefficients in a chemical equation be interpreted?

Consider the reaction:



Key Questions

1. What are the coefficients for each of the following substances in the reaction?

Read This!

Coefficients tell you the relative amounts of products and reactants. A balanced chemical equation can be interpreted in terms of different quantities, including:

- Numbers of particles (atoms, molecules, or formula units)

PARTICLES

Atoms



(if you have a single element)

- Mass
- Volume
- **Moles**

Molecules



(if you have a covalent compound)

Formula Units



(if you have an ionic compound)



Pogil The Mole Concept

**Minu Gupta Bhowon, Sabina Jhaumeer-
Laulloo, Henri Li Kam Wah, Ponnadurai
Ramasami**

Pogil The Mole Concept:

Chemistry Education in the ICT Age Minu Gupta Bhowon, Sabina Jhaumeer-Laulloo, Henri Li Kam Wah, Ponnadurai Ramasami, 2009-07-21 th th The 20 International Conference on Chemical Education 20 ICCE which had rd th Chemistry in the ICT Age as the theme was held from 3 to 8 August 2008 at Le Meridien Hotel Pointe aux Piments in Mauritius With more than 200 participants from 40 countries the conference featured 140 oral and 50 poster presentations th Participants of the 20 ICCE were invited to submit full papers and the latter were subjected to peer review The selected accepted papers are collected in this book of proceedings This book of proceedings encloses 39 presentations covering topics ranging from fundamental to applied chemistry such as Arts and Chemistry Education Biochemistry and Biotechnology Chemical Education for Development Chemistry at Secondary Level Chemistry at Tertiary Level Chemistry Teacher Education Chemistry and Society Chemistry Olympiad Context Oriented Chemistry ICT and Chemistry Education Green Chemistry Micro Scale Chemistry Modern Technologies in Chemistry Education Network for Chemistry and Chemical Engineering Education Public Understanding of Chemistry Research in Chemistry Education and Science Education at Elementary Level We would like to thank those who submitted the full papers and the reviewers for their timely help in assessing the papers for publication th We would also like to pay a special tribute to all the sponsors of the 20 ICCE and in particular the Tertiary Education Commission <http://tec.intnet.mu> and the Organisation for the Prohibition of Chemical Weapons <http://www.opcw.org> for kindly agreeing to fund the publication of these proceedings **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

Exploring the Effectiveness of POGIL and Chemorganisers in Foundation Chemistry Christine Elizabeth Mundy, 2015 The extended BSc programme at the University of Pretoria was the context of this study specifically students enrolled in foundation chemistry This study was aimed at improving teaching and learning at this level by implementing pre-existing education interventions Process Oriented Guided Inquiry Learning POGIL and the use of the Chemorganiser Themes chosen for the interventions were the mole concept and stoichiometry and redox reactions as these have been identified as common areas of difficulty in Chemistry Johnston 2010 POGIL required students to take on well-defined roles and work in groups on specially designed worksheets Farrell Moog 1990 served as the theoretical lens for the study The effectiveness of each intervention was explored using the classroom variables of productivity student preference and opportunity to learn along with the output of student performance Mixed methods including observations focus group interviews student questionnaires and student performance data were used During the first year of implementation the Chemorganisers were well received by students Increased classroom participation and confidence was noted along with stable levels of attendance Students requested the inclusion of more challenging content This intervention did not affect the time allocated for the tutorials and

was easy to implement Students performed better on average than their counterparts a highly statistically significant difference was noted p

Uncover the mysteries within Crafted by is enigmatic creation, Embark on a Mystery with **Pogil The Mole Concept** . This downloadable ebook, shrouded in suspense, is available in a PDF format (PDF Size: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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