Set B

#### Types of Chemical Reactions POGIL

Do atoms rearrange in predictable patters during chemical reactions?

#### Why?

Recognizing patterns allows us to predict future behavior. Weather experts use patterns to predict dangerous storms so people can get their families to safety. Political analysts use patterns to predict election outcomes. Similarly, chemists classify chemical equations according to their patterns to help predict products of unknown but similar chemical reactions.

#### Model 1 - Types of Reactions

Set A	
$4\text{Fe}(s) + 3O_2(g) \rightarrow 2\text{Fe}_2O_1(s)$	
$N_2(g) + 3H_2(g) \rightarrow 2NH_2(g)$	
$2SO_{\gamma}(g) + O_{\gamma}(g) \rightarrow 2SO_{\gamma}(g)$	
$MgO(s)+H_{\gamma}O(l) \rightarrow Mg(OH)_{\gamma}(a)$	q)
$P_2O_3(g) + 3H_2O(l) \rightarrow 2H_3PO_4(a)$	(p
$SO_3(g) + H_2O(l) \to H_2SO_4(aq)$	
Set C	
$2FeCl_s(aq) + 3Zn(s) \rightarrow 2Fe(s) + 3$	3ZnCl <sub>2</sub> (aq)
2Al(NO <sub>x</sub> ),(aq) + 3Ca(s) -> 3Ca(l	$NO_s(aq) + 2Al(s)$
$Mg(s) + CuSO_s(aq) \rightarrow MgSO_s(a$	q) + Cu(s)
$2Al(s) + 6HCl(aq) \rightarrow 2AlCl_{s}(aq)$	+ 3H <sub>2</sub> (g)
Cl <sub>2</sub> (g) + 2NaBr(aq) → 2NaCl(aq	) + Br,(l)
$ZnBr_{_2}(aq)+F_{_2}(g)\to ZnF_{_2}(aq)+$	$Br_2(I)$

$MgCO_1(s) \rightarrow MgO(s) + CO_1(g)$
$8Li_xS(x) \rightarrow 16Li(x) + S_x(x)$
$2H_1O(1) \rightarrow 2H_1(g) + O_1(g)$
2KClO <sub>2</sub> (s) → 2KCl(s) + 3O <sub>2</sub> (g)
$2Na_sO_s(s) \rightarrow 2Na_sO(s) + O_s(g)$
$(NH_y)_2CO_y(s) \rightarrow 2NH_y(g) + H_yO(l) + CO_y(g)$
Set D
$AgNO_s(aq) + NaCl(aq) \rightarrow AgCl(s) + NaNO_s(aq)$
$2HNO_{s}(aq) + Mg(OH)_{s}(aq) \rightarrow Mg(NO_{s})_{s}(aq) + 2H_{s}O(l)$
$Na_sCO_s(aq) + CaCI_s(aq) \rightarrow$ $CaCO_s(s) + 2NaCI(aq)$
$FeS(s) + 2HCl(aq) \rightarrow H_sS(g) + FeCl_s(aq)$

 $HCl(aq) + NaOH(aq) \rightarrow H_2O(l) + NaCl(aq)$  $FeBr_*(aq) + K_*PO_*(aq) \rightarrow FePO_*(s) + 3KBr(aq)$ 

Match each description below to one of the reactions sets (A, B, C, or D) from Model 1.

 \_\_\_\_\_\_ Ionic compounds dissolved in water switch partners.

One compound breaks into elements or smaller compounds
Two or more elements or compounds combine to form one product.

Part of an ionic compound is removed and replaced by a new element.

- 2. Define the following terms as they are commonly used in the English language:
  - a. Synthesis:
  - b. Decomposition:
  - c. Replacement:
  - 3.The four sets of chemical reactions shown in Model 1 have the following general names. Discuss within your group which name belongs to which set of chemical reactions. Write the name in the appropriate place in Model 1.

# **Model 1 Types Of Chemical Reactions Pogil**

**Wasut Pornpatcharapong** 

#### **Model 1 Types Of Chemical Reactions Pogil:**

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 Problems and Problem Solving in Chemistry Education Georgios Tsaparlis, 2021-05-17 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner

Handbook of Research on Critical Thinking Strategies in Pre-Service Learning Environments Mariano, Gina J.,Figliano, Fred J.,2019-01-25 Learning strategies for critical thinking are a vital part of today s curriculum as students have few additional opportunities to learn these skills outside of school environments Therefore it is of utmost importance for pre service teachers to learn how to infuse critical thinking skill development in every academic subject to assist future students in developing these skills The Handbook of Research on Critical Thinking Strategies in Pre Service Learning Environments is a collection of innovative research on the methods and applications of critical thinking that highlights ways to effectively use critical thinking strategies and implement critical thinking skill development into courses While highlighting topics including deep learning metacognition and discourse analysis this book is ideally designed for educators academicians researchers and students

Chemical Reactions Science Learning Guide NewPath Learning,2014-03-01 The Chemical Reactions Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts Changes of Matter Chemical Reactions Formulas Balancing Equations Types of Chemical Reactions 1 Types of Chemical Reactions 2 Energy in Chemical Reactions Evidence of Chemical Reactions and Chemical Reaction Rates Catalysts Aligned to Next Generation Science Standards NGSS and other state standards

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Real World Examples of Four Types of Chemical Reactions, James W Smith developed Real World Examples of Four Types of Chemical Reactions a physical science and chemistry lesson for 9th grade students. The students use the Internet to locate information about industrial pharmaceutical and environmental operations that use examples of the four general classes of chemical reactions These reactions are synthesis decomposition single replacement reactions and double replacement reactions The Louisiana Challenge Grant provides the lesson online as part of the Louisiana Challenge collection of activities for the K 12 classroom **Chemical Reactions** Denise Walker, 2007 This title introduces the reader to the huge variety of chemical reactions that shape our world Find out all about explosions learn about how to start reactions and understand how chemical equations work Chemical Reactions Eve Hartman, Wendy Meshbesher, 2016-08-15 Introduces the world of chemical reactions discussing types of reactions and how to control reactions and including activities a glossary Chemical Reactions Carol Baldwin, 2005 Providing an introduction to materials and a list of resources for further study their properties and uses this book features unusual and everyday examples that relate directly to the readers lives and offers a comprehensive coverage of the KS3 science curriculum with a range of photographs fact boxes words band on each spread and search tips <u>Understanding Chemical Reactions Through the Theoretical Lenses</u> Wasut Pornpatcharapong, 2018 Understanding a proper reaction coordinate and the free energy profile of any chemical reaction provide valuable information in elucidating the kinetics and thermodynamics properties as well as the underlying reaction mechanisms Nevertheless identifying a proper reaction coordinate for a specific chemical reaction or computing the free energy landscape are difficult Hence any methods that could systematically provide insights into both issues would play

important roles in studies of any kind of chemical reactions On the reaction coordinate s front Markov State Model MSM is a tool that can be used to identify the reaction coordinate of the slowest motion in a simulation Instead of the deterministic view of the MD simulations MSM takes a probabilistic view that a configuration has a probability to evolve to another configuration after time t defined by a transfer operator which allows us to identify each motion in the system in terms of the information encapsulated in each of the operator's corresponding eigenfunctions and eigenvalues. The eigenfunctions of the transfer operator can then be projected onto the collective variable space and minimal representation of each eigenfunction in the collective variable space could be obtained On the free energy front efficient multidimensional free energy landscape can be reconstructed smoothly from noisy free energy estimators through Gaussian Process Regression GPR In this dissertation we proposed a rigorous GPR workflow that also ensures the consistency through projection of the multidimensional landscape into each individual one dimensional surface with errors bounded by Eigenvector Method for Umbrella Sampling EMUS We showed that a significant efficiency gain can be obtained through our scheme This dissertation employed both MSM and GPR to study the dynamics of cation anion association in aqueous solutions using LiCl and NaCl as a model With MSM we have completely identified all significant motions in the association process and in the bulk and we also identify important contributions to the slowest process of the dynamics With GPR we have achieved a smooth reconstruction of a free energy landscape of both systems using 2 collective variables and large efficiency gain relative to traditional two dimensional windowed simulation THEORY CHEM REACT DYN Michael Baer, 1985-11-19 Collisions and Chemical Reactions of Mathematical Model of Two-stage Chemical Reaction Biaozhi Wei,2001 Gases Open University, Open University. ST28- Course Team, 1973 **Chemical Reactions** Jenny Karpelenia, 2005-12-01 Chemical reactions such as photosynthesis decomposition burning and cellular respiration bring positive changes to our everyday lives **Chemical Reactions** Philip Wolny, 2011-01-15 Learn about chemical reactions what they are the people responsible for helping us understand them and how they affect us in the world today

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