

Name: _____

Date: _____

Student Exploration: Chemical Equations

Vocabulary: Avogadro's number, chemical equation, chemical formula, chemical reaction, coefficient, combination, combustion, conservation of matter, decomposition, double replacement, molar mass, mole, molecule, product, reactant, single replacement, subscript

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A candle is placed on one pan of a balance, and an equal weight is placed on the other pan.

What would happen if you lit up the candle and waited for a while? _____

2. Suppose the candle was placed in a large, sealed jar that allowed it to burn for several minutes before running out of oxygen. The candle and jar are balanced by an equal weight.

In this situation, what would happen if you lit up the candle and waited? _____

Gizmo Warm-up

Burning is an example of a **chemical reaction**. The law of **conservation of matter** states that no atoms are created or destroyed in a chemical reaction. Therefore, a balanced **chemical equation** will show the same number of each type of atom on each side of the equation.

To set up an equation in the *Chemical Equations Gizmo™*, type the **chemical formulas** into the text boxes of the Gizmo. First, type in "H₂+O₂" in the **Reactants** box and "H₂O" in the **Products** box. This represents the reaction of hydrogen and oxygen gas to form water.

Reactants	→	Products
H ₂ +O ₂	→	H ₂ O

1. Check that the **Visual** display is chosen on each side of the Gizmo, and count the atoms.
 - A. How many hydrogen atoms are on the **Reactants** side? _____ **Products** side? _____
 - B. How many oxygen atoms are on the **Reactants** side? _____ **Products** side? _____
2. Based on what you see, is this equation currently balanced? _____

Explore Learning Unit Conversions Answers

Jane Thompson Barnard, Ed R. Wheeler



Explore Learning Unit Conversions Answers:

Mathematics Activities for Teaching and Learning Jane Thompson Barnard, Ed R. Wheeler, 2002-09-18 **A Voyage of Exploration**, 1986 Metric Units and Conversion Charts Theodore Wildi, 1995-01-15 Metric Units and Conversion Charts A Metrication Handbook for Engineers Technologists and Scientists Second Edition Why waste your valuable time hunting for conversion factors symbols and units With this handbook you can convert from one measurement system to any other by means of 62 conversion charts covering almost every field of science The charts are based on values published by the foremost authoritative sources such as the American National Standards Institute ANSI the International Organization for Standardization ISO and the Institute of Electrical and Electronics Engineers Inc IEEE The charts are universal and so conversions can be made quickly and confidently This much expanded second edition has the following features The charts make a clear distinction between SI and other metric units by identifying SI units by red boxes Official symbols of all SI units are given along with the name of the unit The recommended symbols for quantities are shown at the top of each chart A new chapter on mass force and gravity explains how the units of force were established For introductory courses chapters are included explaining quantity equations and numerical equations together with worked out examples For classroom work over 100 review questions together with answers **Eureka Math Grade 4 Study Guide** Great Minds, 2015-11-09 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 4 provides an overview of all of the Grade 4 modules including Place Value Rounding and Algorithms for Addition and Subtraction Unit Conversions and Problem Solving with Metric Measurement Multi Digit Multiplication and Division Angle Measure and Plane Figures Fraction Equivalence Ordering and Operations Decimal Fractions and Exploring Measurement

with Multiplication *Good Questions* Marian Small, 2020-10-02 Now in its Fourth Edition with more than 50 new questions and a new chapter on financial literacy this bestselling resource helps experienced and novice teachers to effectively and efficiently differentiate mathematics instruction in grades K-8 Math education expert Marian Small shows teachers how to get started and become expert at using two powerful and universal strategies Open Questions and Parallel Tasks This edition is even easier for teachers to use in all quality state standards environments including direct links to content standards and standards for mathematical practice Parallel tasks and question examples are provided at each grade band K-2, 3-5 and 6-8 Along with each example the text describes how teachers can evoke productive conversations that meet the needs of a broad range of learners A must read for every preservice and inservice teacher Carole Greenes professor emerita Arizona State University Small addresses the topic of open questions in a very accessible way I look forward to using this book the next time I teach Elementary Math Methods to teacher candidates Felicia Darling math instructor at Santa Rosa Junior College

Video Pedagogy Dilani S. P. Gedera, Arezou Zalipour, 2021-02-21 This book conceptualises the ways in which video has created a pedagogy for current learning and teaching practices disciplines and environments It brings together the concepts and practice of video as pedagogy by providing theoretical discussion and practical guidance and recommendations on the use of video in learning and teaching drawing on a wide range of case studies including nursing education business education architectural education engineering mathematics physical education science education and screen production Part I focuses on video students and learning and Part II on video teachers and practice The book covers various perspectives on the concept and use of video in learning and teaching developing students practical skills and knowledge using video for teaching culturally sensitive topics and cultural competency for feedback reflection training and professional development making and producing videos for educational purposes with discussion on techniques devices software and strategies

Teaching With Primary Sources for Cultural Understanding, Civic Mindedness, and Democracy Scott M. Waring, 2024 This resource has been developed for Pre-K-20 educators in order to help students use primary sources to go beyond simple acquisition of content knowledge and rote memorization The procedures and approaches outlined in this book are designed to be used with Pre-K-20 students to help them use primary sources in discipline and inquiry based ways to develop and enhance understandings for cultural understanding civic mindedness and democracy Expert authors demonstrate how the skills students learn through this process can be applied to their everyday life and allow them to think critically about the world around them better understand various cultures communicate their understandings effectively and enhance their democratic values Grounded in the National Council for the Social Studies C3 Framework topics include social emotional learning inclusion higher order thinking civic agency project based learning democracy building across cultures teaching about war enacting change through intentional civic engagement and systemic racism in the United States Book Features Chapters by leading experts in the areas of civic education and teaching with primary sources Guidance for

supporting multilingual learners and students with disabilities Detailed examples of classroom tested instructional ideas and approaches from educators teaching with primary sources in Pre K 20 classrooms Primary sources and links to resources throughout the book

Eureka Math Curriculum Study Guide Common Core,2015-03-23 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 4 provides an overview of all of the Grade 4 modules including Place Value Rounding and Algorithms for Addition and Subtraction Unit Conversions and Problem Solving with Metric Measurement Multi Digit Multiplication and Division Angle Measure and Plane Figures Fraction Equivalence Ordering and Operations Decimal Fractions and Exploring Measurement with Multiplication

Math Insights Wb S1a Nt ,2007 Problems in Exploration Seismology and Their Solutions L. P. Geldart,Robert E. Sheriff,2004 This book is designed for students and for geophysicists who need a refresher on the basic theory required to solve practical problems Geophysical texts often provide problems but this book is unique in that it provides solutions also The authors include a summary of the basic theory required to solve each problem The 212 problems cover a wide range including least squares methods choosing velocities for various situations z transforms determining 2D and 3D field geometries and solving processing and interpretation problems

Reviewing **Explore Learning Unit Conversions Answers**: Unlocking the Spellbinding Force of Linguistics

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