

# Student Exploration: Stoichiometry (ANSWER KEY)

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### Student Exploration: Stoichiometry

**Vocabulary:** Avogadro's number, balanced equation, cancel, coefficient, dimensional analysis, molar mass, mole, molecular mass, stoichiometry

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

A 250 mL glass of orange juice contains 22 grams of sugar. How much sugar is in a two-liter (2,000 mL) bottle of orange juice? \_\_\_\_\_

It requires two sticks of butter to make a batch of 20 cookies. How much butter will it take to make 150 cookies? \_\_\_\_\_

### Gizmo Warm-up

Just as a cook follows a recipe to decide how much of each ingredient to add, a chemist uses **stoichiometry** to determine the amounts of substances involved in chemical reactions. The Stoichiometry Gizmo™ allows you to try your hand at figuring out the amounts of reactants and products that take part in a chemical reaction.

To begin, check that this equation is shown:



Look at the **coefficients** (such as the "3" in 3CO) in front of each substance in the equation. The coefficients tell you how many molecules or atoms take part in a chemical reaction. In the spaces below, list the number of each molecule or atom in the equation:

Fe<sub>2</sub>O<sub>3</sub>, \_\_\_\_ CO, \_\_\_\_ Fe, \_\_\_\_ CO<sub>2</sub>, \_\_\_\_

In a **balanced equation**, the same number of each kind of atom is shown on each side of the equation. Calculate the number of iron (Fe), oxygen (O), and carbon atoms (C).

**Reactants** Iron: \_\_\_\_ Oxygen: \_\_\_\_ Carbon: \_\_\_\_

**Products** Iron: \_\_\_\_ Oxygen: \_\_\_\_ Carbon: \_\_\_\_

Based on these values, is the equation balanced? \_\_\_\_

Activity A:	Get the Gizmo ready:	
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# Explore Learning Stoichiometry Answer Key

**Chee, Ken Nee, Sanmugam,  
Mageswaran**



## **Explore Learning Stoichiometry Answer Key:**

**Exploring Chemistry (Loose-Leaf)** Matthew Johll, 2012-05-04 Matthew Johll's Exploring Chemistry covers the standard topics for the nonmajors course in the typical order but each chapter unfolds in the context of a single case study that helps students connect what they are learning to real life situations. For example, students work through the often difficult topics of molecular structure, gas laws, and organic chemistry by learning about the development of powerful new chemotherapy drugs, new technologies for screening airline passengers, and the creation of biodegradable biopolymers. It's the same case-driven approach that Johll uses in his acclaimed Investigating Chemistry, now in its Third Edition, but Exploring Chemistry goes beyond the other book's specific focus on examples from forensic science to use real life stories from cooking, athletics, genetics, green chemistry, and more.

**Applied Chemistry** Siddharth Venkatesh, 2025-02-20 Discover the essential aspects of chemistry in various industries with Applied Chemistry: Practical Applications. This comprehensive textbook provides an in-depth understanding of fundamental chemical principles and their real world applications. Covering a wide range of topics from chemical reactions and materials science to environmental chemistry and sustainable practices, it caters to students, researchers, and professionals. Written by experts, our book blends theoretical concepts with practical examples, offering a solid foundation in key concepts followed by discussions on their applications in industry, technology, and everyday life. We emphasize sustainability, green chemistry principles, and environmentally friendly practices. Clear explanations of complex topics are supported by diagrams, illustrations, and tables. Our book integrates modern research findings and technological advancements in chemistry. End of chapter summaries, review questions, and exercises reinforce learning and facilitate self-assessment. Supplementary materials, including online resources and laboratory exercises, enhance the learning experience. Whether you're a student seeking an introduction to applied chemistry or a professional looking to expand your knowledge, Applied Chemistry: Practical Applications is an invaluable resource for understanding the practical aspects of chemistry in industry, technology, and society.

**Space Research**, 2003 **Chemistry Education** Javier García-Martínez, Elena Serrano-Torregrosa, 2015-02-17 Winner of the CHOICE Outstanding Academic Title 2017 Award. This comprehensive collection of top level contributions provides a thorough review of the vibrant field of chemistry education. Highly experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching as well as the pivotal role of chemistry for shaping a more sustainable future. Adopting a practice oriented approach, the current challenges and opportunities posed by chemistry education are critically discussed, highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them. The main topics discussed include best practices, project based education, blended learning, and the role of technology, including e learning and science visualization. Hands on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively from experience.

chemistry professors to secondary school teachers from educators with no formal training in didactics to frustrated chemistry students

**Science Nexus** Anjali Dave, 2024-06-05 *Science Nexus* Bridging Theory and Practice offers a comprehensive exploration of science education blending theoretical insights with practical strategies From understanding learner psychology to integrating advanced technologies educators will find guidance on fostering curiosity critical thinking and a lifelong love for science With a focus on inquiry based learning hands on experiments and immersive simulations this book equips educators to create engaging learning experiences that transcend traditional boundaries Real world examples and actionable advice from this book will empower educators to bridge theory with practice cultivating a generation of curious minds prepared for the challenges of tomorrow

**Multiple Solution Methods for Teaching Science in the Classroom** Stephen DeMeo, 2008 For the first time in science education the subject of multiple solution methods is explored in book form While a multiple method teaching approach is utilized extensively in math education there are very few journal articles and no texts written on this topic in science Teaching multiple methods to science students in order to solve quantitative word problems is important for two reasons First it challenges the practice by teachers that one specific method should be used when solving problems Secondly it calls into question the belief that multiple methods would confuse students and retard their learning Using a case study approach and informed by research conducted by the author this book claims that providing students with a choice of methods as well as requiring additional methods as a way to validate results can be beneficial to student learning A close reading of the literature reveals that time spent on elucidating concepts rather than on algorithmic methodologies is a critical issue when trying to have students solve problems with understanding It is argued that conceptual understanding can be enhanced through the use of multiple methods in an environment where students can compare evaluate and verbally discuss competing methodologies through the facilitation of the instructor This book focuses on two very useful methods proportional reasoning PR and dimensional analysis DA These two methods are important because they can be used to solve a large number of problems in all of the four academic sciences biology chemistry physics and earth science This book concludes with a plan to integrate DA and PR into the academic science curriculum starting in late elementary school through to the introductory college level A challenge is presented to teachers as well as to textbook writers who rely on the single method paradigm to consider an alternative way to teach scientific problem solving

Integrating Cutting-Edge Technology Into the Classroom Chee, Ken Nee, Sanmugam, Mageswaran, 2024-04-09 The upheavals of technological advancements and the COVID 19 pandemic have reshaped the traditional contours of education creating a pressing need for innovative solutions to bridge the gap between traditional classrooms and the evolving demands of remote or hybrid learning As we grapple with these changes it becomes increasingly evident that the integration of new technology is not just a preference but a necessity to ensure educational resilience and adaptability *Integrating Cutting Edge Technology Into the Classroom* delves into the profound impact of technological disruptions on teaching methodologies

student engagement and overall learning outcomes This book doesn't merely document technological advancements it is a trigger for a fundamental shift in the research community By showcasing real world applications and their impact on student achievement the book propels researchers into uncharted territories sparking collaboration and dialogue Through in depth case studies research findings and expert perspectives it provides a platform for academics technologists and educators to explore the opportunities and challenges posed by advanced technologies in education As an indispensable resource it fosters a collaborative environment that propels educational technology to new heights

**Teaching Science Online** Dietmar Kennepohl, 2023-07-03 With the increasing focus on science education growing attention is being paid to how science is taught Educators in science and science related disciplines are recognizing that distance delivery opens up new opportunities for delivering information providing interactivity collaborative opportunities and feedback as well as for increasing access for students This book presents the guidance of expert science educators from the US and from around the globe They describe key concepts delivery modes and emerging technologies and offer models of practice The book places particular emphasis on experimentation lab and field work as they are fundamentally part of the education in most scientific disciplines Chapters include Discipline methodology and teaching strategies in the specific areas of physics biology chemistry and earth sciences An overview of the important and appropriate learning technologies ICTs for each major science Best practices for establishing and maintaining a successful course online Insights and tips for handling practical components like laboratories and field work Coverage of breaking topics including MOOCs learning analytics open educational resources and m learning Strategies for engaging your students online

*The Software Encyclopedia*, 1988

**Reshaping STEM Education: Strategies for Curriculum Decolonization and Institutional Transformation** Zahid Pranjol, Alia Amir, 2025-11-13 The field of STEM higher education is currently grappling with the imperative need for transformative discourse to address its historical epistemological and colonial underpinnings Despite significant advancements in STEM disciplines there remains a critical gap in inclusivity and equity within higher educational institutes Recent studies have highlighted the persistent colonial structures that shape STEM education often marginalizing diverse voices and perspectives Efforts to decolonize STEM education are gaining momentum yet there is a pressing need for comprehensive research and reflective insights to uproot these entrenched structures This research topic aims to address these gaps by fostering a robust dialogue that transcends traditional boundaries promoting a deeper understanding of the challenges and opportunities in reshaping STEM education through decolonial lenses This research topic aims to provide a scholarly platform for researchers educators and practitioners to contribute groundbreaking research and reflective insights on decolonizing STEM higher education The primary goal is to facilitate a robust dialogue that transcends traditional boundaries fostering a deeper understanding of the challenges and opportunities in reshaping STEM education through decolonial lenses

**Essentials of Introductory Chemistry** Russo Steve Silver Michael, Steve Russo, 2001-12 Introductory Chemistry Third Edition helps

readers master the quantitative skills and conceptual understanding they need to gain a deep understanding of chemistry  
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 SILBERBERG,2003 *El-Hi Textbooks & Serials in Print, 2005* ,2005 Science Education International ,1995 **Boston**  
**Journal of Chemistry and Popular Science Review** ,1876 **The Popular Science News and Boston Journal of**  
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web annual change the variation for a charted area is shown inside the chart s compass rose it s usually written along the arrow pointing to magnetic north it s expressed as degrees east or west this illustration represents the difference in direction between true north and magnetic north

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web and west of that line east of the true north the country may theretone be divided into eastern and western magnetic regions in the eastern region the bearing of polaris at its western elongation if eastward added to the azimuth gives the desired variation west but if westward the bearing taken from the azimuth gives the variation west

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web grivation is calculated by adding variation and convergence algebraically in this case variation is west and convergence is east opposite directions so the algebraic sum becomes 29 w 69 e 40 e grivation the grivation is then applied to the magnetic heading grivation east magnetic least 345 40 025 g

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web apr 5 2022 variation west magnetic best if the variation annotation features the letter w we must add the variation from the course measured on the chart to give an accurate magnetic bearing to fly here are a couple of quick examples true course measured on the map 195 variation 17 w variation west magnetic best

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web the magnetic pole is currently in the far north of canada and has been for there approximately for 200 year this all means that is you are sitting in the uk a magnetic compass points approxima tely 3 5 degrees to the west of true north this difference is known a variation variation is relatively predictable and is marked on the chart

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web the main thing to remember is whether to add or subtract variation and deviation from true to compass add the degrees if they re west and subtract east and from compass to true do the opposite subtract west and add east

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web magnetic declination sometimes called magnetic variation is the angle between magnetic north and true north declination is positive east of true north and negative when west magnetic declination changes over time and with location as the compass points with local magnetic fields declination value is needed to obtain true north more

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web around uk coasts variation is around 4 west to 7 west in other parts of the world it can reach more than 50 east or west because the magnetic north pole moves the variation changes from year to year the compass rose on the chart gives the annual change around 7 east per year around the uk

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web dec 13 2010 magnetic declination also called variation is the difference between true north and magnetic north it is either east or west east declination is considered positive and west is negative charts or maps define the

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web 1 by convention declination is positive when magnetic north is east of true north and negative when it is to the west isogonic lines are lines on the earth s surface along which the declination has the same constant value and lines along which the declination is zero are called agonic lines

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web for a magnetic compass the needle will point towards magnetic north rather than true north depending on where you are on the earth s surface this difference may be as much as 30 variation may be to east or west of true north again depending on where you are on the earth s surface variation also changes as time progresses as the magnetic

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web dec 14 2022 here a magnetic reading of 051 is to be converted to true using a variation of 2 e variation is east so m will be least or less than t by 2 t must be 053 in this example variation is unknown the boat may be on a course of 357 true and a hand held compass reads 001 magnetic the difference between t and m is 4 and m is

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web as variation is directional the rhymes variation east magnetic least and variation west magnetic best can be used as a memory aid to ensure variation is applied correctly navigation variation is an important component when

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web when magnetic north m is west of the true north variation v is west fig 9 5 as it is the case in eastern canada the magnetic course mc of the boat can be calculated from its true course tc measured on the chart by applying the formula mc tc variation west fig 9 5 i e magnetic course true course plus the variation west

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