Molecular Composition of Gases

Chapter Overview

\$1-1 develops the relationships between the volume, muss, and number of particles of a gos. Auogadro's law leach to the concept of molar volume of a gos.

\$1.2 uses the concepts from Section 11-1 to derive the ideal gas law, which is put to practical use in calculations.

11-3 shows students how to use the relationship between the volume and moles of a gas to carry out stoichiometric calculations from chemical reactions.

11-4 demonstrates the relationship between the mass of gas particles and their rate of efflation.

Concept Base

Students may need a review of the following concepts:

- scientific notation and significant figures, Chapter 2
- writing and balancing chemical equations, Chapter 8
- stoichiometric calculations, Chapter 9
- the relationship between temperature and particle motion, Chapter 10

Molecular Composition of Gases



The study of gases led to the formulation of the laws and principles that are the foundations of modern chemistry.

Skills Concept Review Molecular Composition Of Gases

Walter K. Dodds, Matt R. Whiles

Skills Concept Review Molecular Composition Of Gases:

Holt Chemistry Holt Rinehart & Winston, 2003-01-24 Ebook: Chemistry: The Molecular Nature of Matter and Change Silberberg, 2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change Let's Review Regents: Chemistry-Physical Setting Revised Edition Barron's Educational Series, Albert S. Tarendash, 2021-01-05 Barron s Let s Review Regents Chemistry gives students the step by step review and practice they need to prepare for the Regents Chemistry Physical Setting exam This updated edition is an ideal companion to high school textbooks and covers all Chemistry topics prescribed by the New York State Board of Regents Let's Review Regents Chemistry covers all high school level Chemistry topics and includes Extensive review of all topics on the test Extra practice questions with answers A detailed introduction to the Regents Chemistry course and exam One actual recently released Regents Chemistry exam with an answer key Russian Chemical Reviews ,2007 Climate Change 1994 Intergovernmental Panel on Climate Change. Working Group I.,1995-05-04 An essential reference work on climate change and the effect of greenhouse gases

Bibliography of Chemical Reviews ,1960 Applied Mechanics Reviews ,1971 Chemistry3 Andrew Burrows, John Holman, Andrew Parsons, Gwen Pilling, Gareth Price, 2017 Chemistry 3 establishes the fundamental principles of all three strands of chemistry organic inorganic and physical By building on what students have learned at school using carefully worded explanations annotated diagrams and worked examples it presents an approachable introduction to chemistry and its relevance to everyday life Organic Chemistry T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2023 Organic Chemistry 13th edition provides a comprehensive yet accessible treatment of all the essential organic chemistry concepts with emphasis on relationship between structure and reactivity in the subject The textbook includes all the concepts covered in a typical organic chemistry textbook but is unique in its skill development approach to the subject Numerous hands on activities and real world examples are integrated throughout the text to help students understand both the why and the how behind organic chemistry This International Adaptation offers new and updated content with improved presentation of all course material It offers new material on several topics including the relevance of intermolecular forces in the immune response and vaccines like those for Covid 19 the chemistry of breathing carbonic anhydrase how conjugation and complexation affect the color of lobsters and how biodegradable polymers are used to stabilize vaccines and pharmaceuticals Content is revised to reflect the current understanding of chemical processes and improved depictions of longstanding mechanisms This edition builds on the ongoing pedagogical strength of the book with the inclusion of additional worked and end of chapter problems and an engaging set of new problems entitled Chemical Consultant Needed These draw from the primary chemical literature and give students experience of working with more complex polyfunctional structures and areas where key transformations take place Bibliography of Reviews in Chemistry, Freshwater Ecology Walter K. Dodds, Matt R. Whiles, 2010-11-03 Freshwater Ecology Second Edition is a broad up to date treatment of everything from the

basic chemical and physical properties of water to advanced unifying concepts of the community ecology and ecosystem relationships as found in continental waters With 40% new and expanded coverage this text covers applied and basic aspects of limnology now with more emphasis on wetlands and reservoirs than in the previous edition It features 80 new and updated figures including a section of color plates and 500 new and updated references. The authors take a synthetic approach to ecological problems teaching students how to handle the challenges faced by contemporary aquatic scientists This text is designed for undergraduate students taking courses in Freshwater Ecology and Limnology and introductory graduate students taking courses in Freshwater Ecology and Limnology Expanded revision of Dodds successful text New boxed sections provide more advanced material within the introductory modular format of the first edition Basic scientific concepts and environmental applications featured throughout Added coverage of climate change ecosystem function hypertrophic habitats and secondary production Expanded coverage of physical limnology groundwater and wetland habitats Expanded coverage of the toxic effects of pharmaceuticals and endocrine disrupters as freshwater pollutants More on aquatic invertebrates with more images and pictures of a broader range of organisms Expanded coverage of the functional roles of filterer feeding scraping and shredding organisms and a new section on omnivores Expanded appendix on standard statistical techniques Supporting website with figures and tables http www elsevierdirect com companion jsp ISBN Highlights of Astronomy Jacqueline Bergeron, 2013-12-01 Since 1967 the most prominent events of a 9780123747242 General Assembly of the International Astronomical Union are published in a separate volume The Highlights of Astronomy volume 9 report on the major scientific presentations made at the XXIst General Assembly July 23 August 1 1991 Buenos Aires Argentina The present volume contains the texts of the three invited Di scourses and of the papers presented duri ng seven Joi nt Discussion Meetings and eight Joint Commission Meetings The invited Discourses were arranged by the IAU Executive Committee and the Joint Discourses and Commission Meetings by the respective chairpersons The overall responsability of the General Assembly was carried out by the IAU General Secretary 19B8 1991 Dr D McNally I am indebted to the authors of the invited Di scourses to the organizers and editors of the scientific sessions for having provided me with all the material for publication in due time I want to particularly acknowledge the case with which Dr J H Hughes who unfortunately died a few days ago from cancer prepared and checked unti 1 the 1 ast few weeks the report on the new IAU Reference System This report itself concludes long and difficult discussions among IAU members that he led in a wise and clear sighted manner Scientific and Technical Aerospace Reports ,1991 Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections

across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information Indexes to the Epilepsy Accessions of the Epilepsy Information System J. Kiffin Penry,1978

Coatings Technology Handbook Arthur A. Tracton, 2005-07-28 Serving as an all in one guide to the entire field of coatings technology this encyclopedic reference covers a diverse range of topics including basic concepts coating types materials processes testing and applications summarizing both the latest developments and standard coatings methods Take advantage of the insights and experience of over Advances in Synthesis Gas: Methods, Technologies and Applications Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2022-10-18 Advances in Synthesis Gas Methods Technologies and Applications Syngas Products and Usage considers the applications and usages of syngas for producing different chemical materials such as hydrogen methanol ethanol methane ammonia and more In addition power generation in fuel cells or in combination with heat from syngas as well as iron reduction with economic and environmental challenges for syngas utilization are described in detail Introduces syngas characteristics and its properties Describes various methods and technologies for producing syngas Discusses syngas production from different roots and feedstocks Handbook of **Preformulation** Sarfaraz K. Niazi, 2019-03-22 Preformulation studies are the physical chemical and biological studies needed to characterize a drug substance for enabling the proper design of a drug product whereas the effectiveness of a drug product is determined during the formulation studies phase Though the two disciplines overlap in practice each is a significantly distinct phase of new drug development Entirely focused on preformulation principles this fully revised and updated Handbook of Preformulation Chemical Biological and Botanical Drugs Second Edition provides detailed descriptions of preformulation methodologies gives a state of the art description of each technique and lists the currently available tools useful in providing a comprehensive characterization of a new drug entity Features Addresses the preformulation studies of three different types of new active entities chemical biological and botanical which is the latest established class of active ingredient classified by the FDA Illustrates the activities comprised in preformulation studies and establishes a method of tasking for drug development projects Includes extensive flow charts for characterization decision making Gives extensive theoretical treatment of principles important for testing dissolution solubility stability and solid state characterization Includes over 50% new material Cehmistry Textbook for College and University USA Ibrahim Sikder, 2023-06-04 Cehmistry Textbook USA Understanding Physics Using Mathematical Reasoning Andrzej Sokolowski, 2021-08-20 This book speaks about physics discoveries that intertwine mathematical reasoning modeling and scientific inquiry It offers

ways of bringing together the structural domain of mathematics and the content of physics in one coherent inquiry Teaching and learning physics is challenging because students lack the skills to merge these learning paradigms The purpose of this book is not only to improve access to the understanding of natural phenomena but also to inspire new ways of delivering and understanding the complex concepts of physics To sustain physics education in college classrooms authentic training that would help develop high school students skills of transcending function modeling techniques to reason scientifically is needed and this book aspires to offer such training The book draws on current research in developing students mathematical reasoning It identifies areas for advancements and proposes a conceptual framework that is tested in several case studies designed using that framework Modeling Newton's laws using limited case analysis Modeling projectile motion using parametric equations and Enabling covariational reasoning in Einstein formula for the photoelectric effect represent some of these case studies A wealth of conclusions that accompany these case studies drawn from the realities of classroom teaching is to help physics teachers and researchers adopt these ideas in practice

Unveiling the Magic of Words: A Overview of "Skills Concept Review Molecular Composition Of Gases"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really aweinspiring. Enter the realm of "**Skills Concept Review Molecular Composition Of Gases**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

 $\underline{https://movement.livewellcolorado.org/results/publication/HomePages/Trane\%20Xl13i\%20Owners\%20Manual.pdf}$

Table of Contents Skills Concept Review Molecular Composition Of Gases

- 1. Understanding the eBook Skills Concept Review Molecular Composition Of Gases
 - The Rise of Digital Reading Skills Concept Review Molecular Composition Of Gases
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Skills Concept Review Molecular Composition Of Gases
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Skills Concept Review Molecular Composition Of Gases
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Skills Concept Review Molecular Composition Of Gases
 - Personalized Recommendations
 - Skills Concept Review Molecular Composition Of Gases User Reviews and Ratings
 - Skills Concept Review Molecular Composition Of Gases and Bestseller Lists

- 5. Accessing Skills Concept Review Molecular Composition Of Gases Free and Paid eBooks
 - Skills Concept Review Molecular Composition Of Gases Public Domain eBooks
 - Skills Concept Review Molecular Composition Of Gases eBook Subscription Services
 - Skills Concept Review Molecular Composition Of Gases Budget-Friendly Options
- 6. Navigating Skills Concept Review Molecular Composition Of Gases eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Skills Concept Review Molecular Composition Of Gases Compatibility with Devices
 - Skills Concept Review Molecular Composition Of Gases Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Skills Concept Review Molecular Composition Of Gases
 - Highlighting and Note-Taking Skills Concept Review Molecular Composition Of Gases
 - Interactive Elements Skills Concept Review Molecular Composition Of Gases
- 8. Staying Engaged with Skills Concept Review Molecular Composition Of Gases
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - $\circ\,$ Following Authors and Publishers Skills Concept Review Molecular Composition Of Gases
- 9. Balancing eBooks and Physical Books Skills Concept Review Molecular Composition Of Gases
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Skills Concept Review Molecular Composition Of Gases
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Skills Concept Review Molecular Composition Of Gases
 - Setting Reading Goals Skills Concept Review Molecular Composition Of Gases
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Skills Concept Review Molecular Composition Of Gases
 - Fact-Checking eBook Content of Skills Concept Review Molecular Composition Of Gases
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Skills Concept Review Molecular Composition Of Gases Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Skills Concept Review Molecular Composition Of Gases free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Skills Concept Review Molecular Composition Of Gases free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Skills

Concept Review Molecular Composition Of Gases free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Skills Concept Review Molecular Composition Of Gases. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Skills Concept Review Molecular Composition Of Gases any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Skills Concept Review Molecular Composition Of Gases Books

- 1. Where can I buy Skills Concept Review Molecular Composition Of Gases books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
- 2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
- 3. How do I choose a Skills Concept Review Molecular Composition Of Gases book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
- 4. How do I take care of Skills Concept Review Molecular Composition Of Gases books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
- 5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
- 6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.

- 7. What are Skills Concept Review Molecular Composition Of Gases audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
- 8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
- 9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
- 10. Can I read Skills Concept Review Molecular Composition Of Gases books for free? Public Domain Books: Many classic books are available for free as theyre in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Skills Concept Review Molecular Composition Of Gases:

trane xl13i owners manual
trane rthd chiller manual

toyota yaris sedan owners manual 2015 training manual for dump truck drivers

trade and theory question paper 25 march 2014

traffic report anchorage ak trane com pzs manual

trane tcd installation manual

trailer wiring 7 way to 4 way traffic report for i90

trane reciprocating refrigeration manual

traditional chinese medicine cupping therapy

trailer breakaway switch wiring

traffic signs manual volumes kuwait municipality

trains and lovers the hearts journey

Skills Concept Review Molecular Composition Of Gases:

ATF for manual trans in a Ford Escort advice? I know some of the newer Dextron shouldnt be used in a manual trans but is it the same way with the newer Mercon? Can I run a synthetic like Amsoil ATF? The car ... Manual Transmission on a 98 ZX2 Nov 11, 2006 — Ford Escort - Manual Transmission on a 98 ZX2 - Does anyone know if Ford recommends changing the fluid in it's ZX2 model if it's a manual ... Change FORD ESCORT Gearbox Oil and Transmission Oil ... Change FORD ESCORT Gearbox Oil and Transmission Oil yourself - manuals and video tutorials. Helpful guides and tips on replacing FORD ESCORT Gearbox Oil and ... What kind of trans fluid? Nov 24, 2006 — In my 2000 Ford Escort Owners Manual, it states Mercon Auto Tranny Fluid. I have not seen anything about Dextron Mercon III. Even the ... ESCORT ZX2 PROJECT FILLING MANUAL TRANSMISSION ... How to Add Fluid to Manual Transmission Jan 18, 2010 — I have a 1999 Escort 123,750 miles. I changed the driver side axle and oil seal and lost some transmission fluid. I have been told that to add/ ... 1995 ford escort manual transmission fluid Get a free detailed estimate for a transmission fluid change in your area from KBB. ... 8.Compare 1995 Ford Escort Manual Transmission Fluid brands.8l manual ... 1997 ford escort manual trans fluid level check Get a free detailed estimate for a.To change the transmission fluid on the manual 1998 Ford Escort ZX2, drain the fluid from the drain hole near the speed ... Ford Escort Manual Transmission Fluid Low prices on Manual Transmission Fluid for your Ford Escort at Advance Auto Parts. Find aftermarket and OEM parts online or at a local store near you. Ford escort manual transission for sale The manual transmission in the Ford Escort uses transmission fluid, it is ... Get a free detailed estimate for a transmission repair and replacement in your area ... Quick Quiz 8Da. 1 Which of these is a 'life process' carried out by all organisms? A photosynthesis. B breathing. C fermentation. D respiration. Answers Non-scientific questions: E (although science can inform the discussion), H, M, r. Scientific questions: Can be answered now: A, B, C (although a suitable. Exploring Science 8D Unicellular Organisms | 169 plays PHS: Exploring Science 8D Unicellular Organisms quiz for 8th grade students. Find other quizzes for Biology and more on Quizizz for free! Quick Quiz: On Your Answer Sheet, Write in or Circle ... On your answer sheet, write in or circle the correct letter for each question. 8Ba 1 In which kingdom do all the organisms 3 Which of these is an example of ... Exploring science 8jb answers Quick Quiz 8I. With the AT2 question you will be Exploring Science 8 Worksheets - K12 Workbook WebDisplaying top 8 worksheets found for - Exploring Science ... Exploring Science 7 C Quick Quiz Answers Pdf Exploring Science 7 C Quick Quiz Answers Pdf. INTRODUCTION Exploring Science 7 C Quick Quiz Answers Pdf [PDF] Exploring science 8b quick quiz answers Exploring science 8b quick quiz answers. Quick Quiz Exploring Science Answers. 8B Exploring Science edition 69 © Pearson Education Limited 2008 8 B End of ... Pseudomonas: Model Organism, Pathogen, Cell Factory Mar 26, 2008 — Concise and up-to-date, this handy guide fills a gap in the literature by providing the essential knowledge for everyone with an interest in ... Pseudomonas: Model Organism, Pathogen, Cell Factory. ... The two first chapters deal with comparative genomics of Pseudomonas genomes and P. aeruginosa infections in

humans (in particular in cystic fibrosis patients), ... Pseudomonas: Model Organism, Pathogen, Cell Factory Concise and upto-date, this handy guide fills a gap in the literature by providing the essential knowledge for everyone with an interest in the topic. Pseudomonas: Model Organism, Pathogen, Cell Factory This text is a comprehensive overview of the most important model organism in applied microbiology that covers basic biology, pathology and biotechnological ... Microbe Profile: Pseudomonas aeruginosa: opportunistic ... by SP Diggle · 2020 · Cited by 311 — Pseudomonas aeruginosa is a Gram-negative opportunistic pathogen and a model bacterium for studying virulence and bacterial social traits. Pseudomonas: Model Organism, Pathogen, Cell Factory ... Pseudomonas aeruginosa is a common bacterium found in a wide range of environments; it infects nematodes, insects, plants, and ameba in the laboratory and ... Bernd H.A. Rehm: Books Pseudomonas: Model Organism, Pathogen, Cell Factory. Pinch to zoom-in further. SEE MORE DETAILS. Pseudomonas: Model Organism, Pathogen, Cell Factory. Pseudomonas model organism pathogen cell factory ... May 16, 2023 — Thank you for reading pseudomonas model organism pathogen cell factory. Maybe you have knowledge that, people have search numerous times for. Pseudomonas: Model Organism, Pathogen, Cell Factory Pseudomonas: Model Organism, Pathogen, Cell Factory Pseudomonas: Model Organism, Pathogen, Cell Factory Jun 25, 2008 — Get Textbooks on Google Play. Rent and save from the world's largest eBookstore. Read, highlight, and take notes, across web, tablet, and phone.