

11 Chemical Reactions

Big idea REACTIONS

11.1 Describing Chemical Reactions

For students using the Foundation edition, assign problems 1–17.

Essential Understanding Chemical reactions are represented by balanced chemical equations.

Lesson Summary

Introduction to Chemical Equations A chemical equation uses symbols, and sometimes words, to show the reactants and products of a chemical reaction.

- ▶ A skeleton equation uses chemical formulas to represent reactants and products, but it does not indicate the relative amounts of each.
- ▶ Anything that enters into a reaction, such as heat or a catalyst, but is not a reactant or product is shown above or below the yields arrow in the equation.

Balancing Chemical Equations Chemical equations are balanced to show that mass is conserved during chemical reactions.

- ▶ A balanced equation shows the relative amounts of reactants and products, and it contains equal numbers of each type of atom on both sides of the equation.
- ▶ Chemical equations are balanced by using coefficients in front of the chemical formulas for the reactants and the products in a skeleton equation.

BUILD Math Skills

Balancing Equations All chemical equations must be balanced because of the law of conservation of mass, which states that matter cannot be created or destroyed. So, the number of atoms that you start with at the beginning of the reaction must equal the number of atoms that you end up with.

For example, the reaction $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$ follows the law of conservation of mass because you start with 2 magnesium atoms and 2 oxygen atoms and you end up with 2 magnesium atoms and 2 oxygen atoms. You can think of the $\rightarrow$ as an $=$ sign.



Turn the page to learn more about balancing equations.

1describing Chemical Reactions Workbook Answers

Donna Larson



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Catalyst 1 Red Student Book Carol Chapman, Moira Sheehan, 2003 The parallel higher level Red books in the Catalyst series use the same format as the Green books This text also includes hands on activities summaries and in text questions to help pupils consolidate their knowledge Reaction Mechanism, Stereochemistry, Aromatic Hydrocarbons and Chemical Kinetics (Chemistry Book): B.Sc 2nd Sem Dr. Rajesh Kumar Saini, Dr. Harshita Garg, 2024-02-01 Purchase the e book on Reaction Mechanism Stereochemistry Aromatic Hydrocarbons and Chemical Kinetics Chemistry Book tailored for the B Sc 2nd Semester curriculum at the University of Rajasthan Jaipur compliant with the National Education Policy NEP of 2020 authored by Thakur Publications *MnM POW-Science-PM-07* S K Gupta, Me n Mine Pullout Worksheets is a complete resource for practice comprising 3 books for Maths 6 8 and 3 books for Science 6 8 in the form of worksheets through which the learners can revise concepts learnt and identify the areas of improvement A comprehensive assessment is possible through this series Unsolved practice papers as per the latest CBSE syllabus and guidelines are included at the end of each book Along with basic exercises enriching activities like puzzles and crosswords are added to enhance comprehension of concepts and their applications **Anatomy & Physiology (includes A&P Online course) E-Book** Kevin T. Patton, 2018-01-31 Anatomy Physiology includes A P Online course E Book **Clinical Chemistry - E-Book** Donna Larson, 2015-12-17 Gain a clear understanding of pathophysiology and lab testing Clinical Chemistry Fundamentals and Laboratory Techniques prepares you for success as a medical lab technician by simplifying complex chemistry concepts and lab essentials including immunoassays molecular diagnostics and quality control A pathophysiologic approach covers diseases that are commonly diagnosed through chemical tests broken down by body system and category such as respiratory gastrointestinal and cardiovascular conditions Written by clinical chemistry educator Donna Larson and a team of expert contributors this full color book is ideal for readers who may have minimal knowledge of chemistry and are learning laboratory science for the first time Full color illustrations and design simplify complex concepts and make learning easier by highlighting important material Case studies help you apply information to real life scenarios Pathophysiology and Analytes section includes information related to diseases or conditions such as a biochemistry review disease mechanisms clinical correlation and laboratory analytes and assays Evolve companion website includes case studies and animations that reinforce what you ve learned from the book Laboratory Principles section covers safety quality assurance and other fundamentals of laboratory techniques Review questions at the end of each chapter are tied to the learning objectives helping you review and retain the material Critical thinking questions and discussion questions help you think about and apply key points and concepts Other Aspects of Clinical Chemistry section covers therapeutic drug monitoring toxicology transplantation and emergency preparedness Learning objectives in each chapter help you to remember key points or to analyze and synthesize concepts in clinical chemistry A list of key words Is provided at the beginning of each chapter and these are also bolded in

the text Chapter summaries consist of bulleted lists and tables highlighting the most important points of each chapter A glossary at the back of the book provides a quick reference to definitions of all clinical chemistry terms

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Soil Chemistry Daniel G. Strawn, Hinrich L. Bohn, George A. O'Connor, 2020-01-28 Provides comprehensive coverage of the chemical interactions among organic and inorganic solids air water microorganisms and the plant roots in soil This book focuses on the species and reaction processes of chemicals in soils with applications to environmental and agricultural issues Topics range from discussion of fundamental chemical processes to review of properties and reactions of chemicals in the environment This new edition contains more examples more illustrations more details of calculations and reorganized material within the chapters including nearly 100 new equations and 51 new figures Each section also ends with an important concepts overview as well as new questions for readers to answer Starting with an introduction to the subject Soil Chemistry 5th Edition offers in depth coverage of properties of elements and molecules characteristics of chemicals in soils soil water chemistry redox reactions in soils mineralogy and weathering processes in soils and chemistry of soil clays The book also provides chapters that examine production and chemistry of soil organic matter surface properties of soil colloids adsorption processes in soils measuring and predicting sorption processes in soils soil acidity and salt affected soils Provides a basic description of important research and fundamental knowledge in the field of soil chemistry Contains more than 200 references provided in figure and table captions and at the end of the chapters Extensively revised with updated figures and tables Soil Chemistry 5th Edition is an excellent text for senior level soil chemistry students

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