

Grade 7 Science Experiments Mixtures And Solutions

Incredible Experiments with Chemical Reactions and Mixtures **Mix it Up! Super Science Concoctions** *Crazy Concoctions* *Mixtures and Solutions* *Mixtures and Solutions* **Tried and Tested Primary Science Experiments** *Janice VanCleave's Big Book of Science Experiments* **Pancakes, Pancakes! Bartholomew and the Oobleck** *Crazy Concoctions* **What Are Mixtures?** *Kitchen Chemistry* **The magic of science, a manual of easy scientific experiments** **Comprehensive Organic Chemistry Experiments for the Laboratory Classroom Experiments with Mixtures Making Things Change Chemistry of the Upper and Lower Atmosphere Elements, Compounds, and Mixtures Resolving Spectral Mixtures** *Mixtures and Solutions* **Proceedings of the Royal Society of London A Primer on Experiments with Mixtures** **Science Experiments Index for Young People** *The Golden Book of Chemistry Experiments* *Amazing KITCHEN CHEMISTRY Projects* **Illustrated Guide to Home Chemistry Experiments** **Substances Mixtures and Compounds** **Quality by Experimental Design** **The Really Useful Book of Science Experiments** *Response Surfaces, Mixtures, and Ridge Analyses* *The Science Explorer* **The Annual of Scientific Discovery, Or, Year-book of Facts in Science and Art** **The New Zealand Journal of Science and Technology** **Compounds and Mixtures** *Naked Eggs and Flying Potatoes* **American Journal of Science** *Beyond the Molecular Frontier* *The Discovery of Oxygen, Part 1* **DIY Science**

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The Annual of Scientific Discovery, Or, Year-book of Facts in Science and Art Jan 24 2020

What Are Mixtures? Nov 14 2021 Mixtures are easy and fun to make, because they don't need a chemical reaction like compounds do. If you have a bowl filled with red candies and pink candies, you have a mixture. Even your favorite pizza is a mixture. Mixtures are made whenever two or more different things come together but can also be easily separated. Mixtures can be solids, liquids, or gases. Your budding scientists will explore each and every kind of mixture with fun diagrams and elementary-level vocabulary.

Substances Mixtures and Compounds Jun 28 2020

The Golden Book of Chemistry Experiments Oct 01 2020 BANNED: The Golden Book of Chemistry Experiments was a children's chemistry book written in the 1960s by Robert Brent and illustrated by Harry Lazarus, showing how to set up your own home laboratory and conduct over 200 experiments. The book is controversial, as many of the experiments contained in the book are now considered too dangerous for the general public. There are apparently only 126 copies of this book in libraries worldwide. Despite this, it's known as one of the best DIY chemistry books ever published. The book was a source of inspiration to David Hahn, nicknamed "the Radioactive Boy Scout" by the media, who tried to collect a sample of every chemical element and also built a model nuclear reactor (nuclear reactions however are not covered in this book), which led to the involvement of the authorities. On the other hand, it has also been the inspiration for many children who went on to get advanced degrees and productive chemical careers in industry or academia.

Naked Eggs and Flying Potatoes Oct 21 2019 A collection of easy and entertaining home science experiments from the creator of the popular "Mentos soda geyser" viral video.

Kitchen Chemistry Oct 13 2021 In *Kitchen Chemistry: Cool Crystals, Rockin' Reactions, and Magical Mixtures with Hands-On Science Activities*, readers ages 9 to 12 discover that the cooking, mixing, and measuring you do in the kitchen all has its roots deep in science--chemistry! Kids dive into the fascinating world of atoms and molecules, mixtures, reactions, states of matter, solutions, and more with text-to-world connections that deepen their understanding of the world and the connection to chemistry to be found in every area of life.

Amazing KITCHEN CHEMISTRY Projects Aug 31 2020 In *Amazing Kitchen Chemistry Projects You Can Build Yourself*, kids ages 9 and up will experiment with kitchen materials to discover chemistry. Readers will learn about atoms, molecules, solids, liquids, gases, polymers, the periodic table, the important history of science, and much more. Along the way, they'll make goop, cause chemical reactions, and create delicious treats, and all of it will illustrate important chemistry concepts. *Amazing Kitchen Chemistry Projects* is a fun and exciting way for young readers to learn all about chemistry and become scientists right in the kitchen.

Janice VanCleave's Big Book of Science Experiments Mar 18 2022 Janice VanCleave once again ignites children's love for science in her all-new book of fun experiments—featuring a fresh format, new experiments, and updated content standards From everyone's favorite science teacher comes Janice VanCleave's Big Book of Science Experiments. This user-friendly book gets kids excited about science with lively experiments designed to spark imaginations and encourage science learning. Using a few handy supplies, you will have your students exploring the wonders of science in no time. Simple step-by-step instructions and color illustrations help you easily demonstrate the fundamental concepts of astronomy, biology, chemistry, and more. Children will delight in making their own slime and creating safe explosions as they learn important science skills and processes. Author Janice VanCleave passionately believes that all children can learn science. She has helped millions of students experience the magic and mystery of science with her time-tested, thoughtfully-designed experiments. This book offers both new and classic activities that cover the four dimensions of science—physical science, astronomy, Biology, and Earth Science—and provide a strong foundation in science education for students to build upon. An ideal resource for both classroom and homeschool environments, this engaging book: Enables students to experience science firsthand and discuss their observations Offers low-prep experiments that require simple, easily-obtained supplies Presents a modern, full-color design that appeals to students Includes new experiments, activities, and lessons Correlates to National Science Standards *Janice VanCleave's Big Book of Science Experiments* is a must-have book for the

real-world classroom, as well as for any parent seeking to teach science to their children.
Elements, Compounds, and Mixtures Apr 07 2021 Describes what elements and compounds are and explains how they can join together to form many different types of objects

Mix it Up! Sep 24 2022 Offers an explanation of solutions and mixtures and how they differ, as well as examples of mixtures and solutions.

The magic of science, a manual of easy scientific experiments Sep 12 2021

Crazy Concoctions Jul 22 2022 Presents simple chemical reaction science experiments and recipes for mixtures of varying viscosity.

Mixtures and Solutions May 20 2022 Simple introduction to chemical mixtures and solutions, with examples from everyday life.

Response Surfaces, Mixtures, and Ridge Analyses Mar 26 2020 The authority on building empirical models and the fitting of such surfaces to data—completely updated and revised. Revising and updating a volume that represents the essential source on building empirical models, George Box and Norman Draper—renowned authorities in this field—continue to set the standard with the Second Edition of *Response Surfaces, Mixtures, and Ridge Analyses*, providing timely new techniques, new exercises, and expanded material. A comprehensive introduction to building empirical models, this book presents the general philosophy and computational details of a number of important topics, including factorial designs at two levels; fitting first and second-order models; adequacy of estimation and the use of transformation; and occurrence and elucidation of ridge systems. Substantially rewritten, the Second Edition reflects the emergence of ridge analysis of second-order response surfaces as a very practical tool that can be easily applied in a variety of circumstances. This unique, fully developed coverage of ridge analysis—a technique for exploring quadratic response surfaces including surfaces in the space of mixture ingredients and/or subject to linear restrictions—includes MINITAB® routines for performing the calculations for any number of dimensions. Many additional figures are included in the new edition, and new exercises (many based on data from published papers) offer insight into the methods used. The exercises and their solutions provide a variety of supplementary examples of response surface use, forming an extremely important component of the text. *Response Surfaces, Mixtures, and Ridge Analyses, Second Edition* presents material in a logical and understandable arrangement and includes six new chapters covering an up-to-date presentation of standard ridge analysis (without restrictions); design and analysis of mixtures experiments; ridge analysis methods when there are linear restrictions in the experimental space including the mixtures experiments case, with or without further linear restrictions; and canonical reduction of second-order response surfaces in the foregoing general case. Additional features in the new edition include: New exercises with worked answers added throughout An extensive revision of Chapter 5: Blocking and Fractionating 2k Designs Additional discussion on the projection of two-level designs into lower dimensional spaces This is an ideal reference for researchers as well as a primary text for Response Surface Methodology graduate-level courses and a supplementary text for Design of Experiments courses at the upper-undergraduate and beginning-graduate levels.

Quality by Experimental Design May 28 2020 Achieve Technological Advancements in Applied Science and Engineering Using Efficient Experiments That Consume the Least Amount of Resources Written by longtime experimental design guru Thomas B. Barker and experimental development/Six Sigma expert Andrew Milivojevic, *Quality by Experimental Design, Fourth Edition* shows how to design and analyze experiments statistically, drive process and product innovation, and improve productivity. The book presents an approach to

experimentation that assesses many factors, builds predictive models, and verifies the models. New to the Fourth Edition Updated computer programs used to perform simulations, including the latest version of Minitab® Four new chapters on mixture experiments:

Introduction to Mixture Experiments, The Simplex Lattice Design, The Simplex Centroid Design, and Constrained Mixtures Additional exercises and Minitab updates A Proven, Practical Guide for Newcomers and Seasoned Practitioners in Engineering, Applied Science, Quality, and Six Sigma This bestselling, applied text continues to cover a broad range of experimental designs for practical use in applied research, quality and process engineering, and product development. With its easy-to-read, conversational style, the book is suitable for any course in applied statistical experimental design or in a Six Sigma program.

Tried and Tested Primary Science Experiments Apr 19 2022 The modern world needs more scientists and engineers, and good science education is key to filling this gap. Especially in the current climate of rapid curriculum changes, a lack of emphasis on training can result in unconfident teaching and monotonous lessons. To rectify this, this book offers methods to deliver the National Curriculum aims at primary school in an interesting, hands-on and fun fashion. Tried and Tested Primary Science Experiments provides a practical step-by-step guide for all year groups, helping teachers to create more engaging and fun science lessons in the classroom. All experiments are simple to follow, fail-safe and are designed to enthuse and inspire students. It includes: tried and tested guides to running successful science experiments; clear instructions that outline the simple equipment required, how to carry out the experiments and what results to expect; suggestions for adapting each activity to the special needs and interests of the students. Aimed at primary school teachers and trainee teachers, this illustrated guide refers directly to the new curriculum and is an essential resource for every primary classroom.

The Discovery of Oxygen, Part 1 Jul 18 2019

Pancakes, Pancakes! Feb 17 2022 By cutting and grinding the wheat for flour, Jack starts from scratch to help make his breakfast pancake.

The New Zealand Journal of Science and Technology Dec 23 2019

Super Science Concoctions Aug 23 2022 Over 75 safe, inexpensive science experiments with mixtures that illustrate changes in form and chemical composition.

Resolving Spectral Mixtures Mar 06 2021 Resolving Spectral Mixtures: With Applications from Ultrafast Time-Resolved Spectroscopy to Superresolution Imaging offers a comprehensive look into the most important models and frameworks essential to resolving the spectral unmixing problem—from multivariate curve resolution and multi-way analysis to Bayesian positive source separation and nonlinear unmixing. Unravelling total spectral data into the contributions from individual unknown components with limited prior information is a complex problem that has attracted continuous interest for almost four decades. Spectral unmixing is a topic of interest in statistics, chemometrics, signal processing, and image analysis. For decades, researchers from these fields were often unaware of the work in other disciplines due to their different scientific and technical backgrounds and interest in different objects or samples. This led to the development of quite different approaches to solving the same problem. This multi-authored book will bridge the gap between disciplines with contributions from a number of well-known and strongly active chemometric and signal processing research groups. Among chemists, multivariate curve resolution methods are preferred to extract information about the nature, amount, and location in time (process) and space (imaging and microscopy) of chemical constituents in complex samples. In signal processing, assumptions are usually around statistical independence of the extracted components. However, the chapters include the complexity of the spectral data to be

unmixed as well as dimensionality and size of the data sets. Advanced spectroscopy is the key thread linking the different chapters. Applications cover a large part of the electromagnetic spectrum. Time-resolution ranges from femtosecond to second in process spectroscopy and spatial resolution covers the submicronic to macroscopic scale in hyperspectral imaging. Demonstrates how and why data analysis, signal processing, and chemometrics are essential to the spectral unmixing problem Guides the reader through the fundamentals and details of the different methods Presents extensive plots, graphical representations, and illustrations to help readers understand the features of different techniques and to interpret results Bridges the gap between disciplines with contributions from a number of well-known and highly active chemometric and signal processing research groups

Proceedings of the Royal Society of London Jan 04 2021

A Primer on Experiments with Mixtures Dec 03 2020 The concise yet authoritative presentation of key techniques for basic mixtures experiments Inspired by the author's bestselling advanced book on the topic, *A Primer on Experiments with Mixtures* provides an introductory presentation of the key principles behind experimenting with mixtures. Outlining useful techniques through an applied approach with examples from real research situations, the book supplies a comprehensive discussion of how to design and set up basic mixture experiments, then analyze the data and draw inferences from results. Drawing from his extensive experience teaching the topic at various levels, the author presents the mixture experiments in an easy-to-follow manner that is void of unnecessary formulas and theory. Succinct presentations explore key methods and techniques for carrying out basic mixture experiments, including: Designs and models for exploring the entire simplex factor space, with coverage of simplex-lattice and simplex-centroid designs, canonical polynomials, the plotting of individual residuals, and axial designs Multiple constraints on the component proportions in the form of lower and/or upper bounds, introducing L-Pseudocomponents, multicomponent constraints, and multiple lattice designs for major and minor component classifications Techniques for analyzing mixture data such as model reduction and screening components, as well as additional topics such as measuring the leverage of certain design points Models containing ratios of the components, Cox's mixture polynomials, and the fitting of a slack variable model A review of least squares and the analysis of variance for fitting data Each chapter concludes with a summary and appendices with details on the technical aspects of the material. Throughout the book, exercise sets with selected answers allow readers to test their comprehension of the material, and References and Recommended Reading sections outline further resources for study of the presented topics. *A Primer on Experiments with Mixtures* is an excellent book for one-semester courses on mixture designs and can also serve as a supplement for design of experiments courses at the upper-undergraduate and graduate levels. It is also a suitable reference for practitioners and researchers who have an interest in experiments with mixtures and would like to learn more about the related mixture designs and models.

The Really Useful Book of Science Experiments Apr 26 2020 *The Really Useful Book of Science Experiments* contains 100 simple-to-do science experiments that can be confidently carried out by any teacher in a primary school classroom with minimal (or no!) specialist equipment needed. The experiments in this book are broken down into easily manageable sections including: It's alive: experiments that explore our living world, including the human body, plants, ecology and disease A material world: experiments that explore the materials that make up our world and their properties, including metals, acids and alkalis, water and elements Let's get physical: experiments that explore physics concepts and their applications

in our world, including electricity, space, engineering and construction Something a bit different: experiments that explore interesting and unusual science areas, including forensic science, marine biology and volcanology. Each experiment is accompanied by a 'subject knowledge guide', filling you in on the key science concepts behind the experiment. There are also suggestions for how to adapt each experiment to increase or decrease the challenge. The text does not assume a scientific background, making it incredibly accessible, and links to the new National Curriculum programme of study allow easy connections to be made to relevant learning goals. This book is an essential text for any primary school teacher, training teacher or classroom assistant looking to bring the exciting world of science alive in the classroom.

Experiments with Mixtures Jul 10 2021 The most comprehensive, single-volume guide to conducting experiments with mixtures "If one is involved, or heavily interested, in experiments on mixtures of ingredients, one must obtain this book. It is, as was the first edition, the definitive work." -Short Book Reviews (Publication of the International Statistical Institute) "The text contains many examples with worked solutions and with its extensive coverage of the subject matter will prove invaluable to those in the industrial and educational sectors whose work involves the design and analysis of mixture experiments." -Journal of the Royal Statistical Society "The author has done a great job in presenting the vital information on experiments with mixtures in a lucid and readable style. . . . A very informative, interesting, and useful book on an important statistical topic." -Zentralblatt für Mathematik und Ihre Grenzgebiete Experiments with Mixtures shows researchers and students how to design and set up mixture experiments, then analyze the data and draw inferences from the results. Virtually every technique that has appeared in the literature of mixtures can be found here, and computing formulas for each method are provided with completely worked examples. Almost all of the numerical examples are taken from real experiments. Coverage begins with Scheffe lattice designs, introducing the use of independent variables, and ends with the most current methods. New material includes: * Multiple response cases * Residuals and least-squares estimates * Categories of components: Mixtures of mixtures * Fixed as well as variable values for the major component proportions * Leverage and the Hat Matrix * Fitting a slack-variable model * Estimating components of variances in a mixed model using ANOVA table entries * Clarification of blocking mates and choice of mates * Optimizing several responses simultaneously * Biplots for multiple responses

Illustrated Guide to Home Chemistry Experiments Jul 30 2020 For students, DIY hobbyists, and science buffs, who can no longer get real chemistry sets, this one-of-a-kind guide explains how to set up and use a home chemistry lab, with step-by-step instructions for conducting experiments in basic chemistry -- not just to make pretty colors and stinky smells, but to learn how to do real lab work: Purify alcohol by distillation Produce hydrogen and oxygen gas by electrolysis Smelt metallic copper from copper ore you make yourself Analyze the makeup of seawater, bone, and other common substances Synthesize oil of wintergreen from aspirin and rayon fiber from paper Perform forensics tests for fingerprints, blood, drugs, and poisons and much more From the 1930s through the 1970s, chemistry sets were among the most popular Christmas gifts, selling in the millions. But two decades ago, real chemistry sets began to disappear as manufacturers and retailers became concerned about liability. The Illustrated Guide to Home Chemistry Experiments steps up to the plate with lessons on how to equip your home chemistry lab, master laboratory skills, and work safely in your lab. The bulk of this book consists of 17 hands-on chapters that include multiple laboratory sessions on the following topics: Separating Mixtures Solubility and Solutions Colligative Properties of Solutions Introduction to Chemical Reactions & Stoichiometry Reduction-

Oxidation (Redox) Reactions Acid-Base Chemistry Chemical Kinetics Chemical Equilibrium and Le Chatelier's Principle Gas Chemistry Thermochemistry and Calorimetry Electrochemistry Photochemistry Colloids and Suspensions Qualitative Analysis Quantitative Analysis Synthesis of Useful Compounds Forensic Chemistry With plenty of full-color illustrations and photos, Illustrated Guide to Home Chemistry Experiments offers introductory level sessions suitable for a middle school or first-year high school chemistry laboratory course, and more advanced sessions suitable for students who intend to take the College Board Advanced Placement (AP) Chemistry exam. A student who completes all of the laboratories in this book will have done the equivalent of two full years of high school chemistry lab work or a first-year college general chemistry laboratory course. This hands-on introduction to real chemistry -- using real equipment, real chemicals, and real quantitative experiments -- is ideal for the many thousands of young people and adults who want to experience the magic of chemistry.

Mixtures and Solutions Jun 21 2022 This nonfiction science reader will help fifth grade students gain science content knowledge while building their reading comprehension and literacy skills. This purposefully leveled text features hands-on, challenging science experiments and full-color images. Students will learn all about chemistry, colloids, solubility, solutions, and much more through this engaging text that supports STEM education and is aligned to the Next Generation Science Standards. Important text features like a glossary and index will improve students close reading skills.

Beyond the Molecular Frontier Aug 19 2019 Chemistry and chemical engineering have changed significantly in the last decade. They have broadened their scope"into biology, nanotechnology, materials science, computation, and advanced methods of process systems engineering and control"so much that the programs in most chemistry and chemical engineering departments now barely resemble the classical notion of chemistry. Beyond the Molecular Frontier brings together research, discovery, and invention across the entire spectrum of the chemical sciences"from fundamental, molecular-level chemistry to large-scale chemical processing technology. This reflects the way the field has evolved, the synergy at universities between research and education in chemistry and chemical engineering, and the way chemists and chemical engineers work together in industry. The astonishing developments in science and engineering during the 20th century have made it possible to dream of new goals that might previously have been considered unthinkable. This book identifies the key opportunities and challenges for the chemical sciences, from basic research to societal needs and from terrorism defense to environmental protection, and it looks at the ways in which chemists and chemical engineers can work together to contribute to an improved future.

Science Experiments Index for Young People Nov 02 2020 An index to science experiments and activities in almost 700 books, with descriptions, location codes, and cross-indexing.

Mixtures and Solutions Feb 05 2021 "Describes how things change or stay the same when they are combined. As readers use scientific inquiry to learn about the elements that make up matter and how they can be mixed as well, an activity based on real world situations challenges them to apply what they've learned in order to solve a puzzle"--

Comprehensive Organic Chemistry Experiments for the Laboratory Classroom Aug 11 2021 This expansive and practical textbook contains organic chemistry experiments for teaching in the laboratory at the undergraduate level covering a range of functional group transformations and key organic reactions. The editorial team have collected contributions from around the world and standardized them for publication. Each experiment will explore a

modern chemistry scenario, such as: sustainable chemistry; application in the pharmaceutical industry; catalysis and material sciences, to name a few. All the experiments will be complemented with a set of questions to challenge the students and a section for the instructors, concerning the results obtained and advice on getting the best outcome from the experiment. A section covering practical aspects with tips and advice for the instructors, together with the results obtained in the laboratory by students, has been compiled for each experiment. Targeted at professors and lecturers in chemistry, this useful text will provide up to date experiments putting the science into context for the students.

Bartholomew and the Oobleck Jan 16 2022 Join Bartholomew Cubbins in Dr. Seuss's Caldecott Honor-winning picture book about a king's magical mishap! Bored with rain, sunshine, fog, and snow, King Derwin of Didd summons his royal magicians to create something new and exciting to fall from the sky. What he gets is a storm of sticky green goo called Oobleck—which soon wreaks havoc all over his kingdom! But with the assistance of the wise page boy Bartholomew, the king (along with young readers) learns that the simplest words can sometimes solve the stickiest problems.

Incredible Experiments with Chemical Reactions and Mixtures Oct 25 2022 Provides instructions for sixteen simple experiments using common household materials to explore mixtures, solvents, water density, oxidation, and other topics in chemistry, and offers scientific explanations.

The Science Explorer Feb 23 2020

Compounds and Mixtures Nov 21 2019 Following the scientific process, this title provides instructions on how to conduct experiments that help students gain a better understanding of compounds and mixtures.

Chemistry of the Upper and Lower Atmosphere May 08 2021 Here is the most comprehensive and up-to-date treatment of one of the hottest areas of chemical research. The treatment of fundamental kinetics and photochemistry will be highly useful to chemistry students and their instructors at the graduate level, as well as postdoctoral fellows entering this new, exciting, and well-funded field with a Ph.D. in a related discipline (e.g., analytical, organic, or physical chemistry, chemical physics, etc.). Chemistry of the Upper and Lower Atmosphere provides postgraduate researchers and teachers with a uniquely detailed, comprehensive, and authoritative resource. The text bridges the "gap" between the fundamental chemistry of the earth's atmosphere and "real world" examples of its application to the development of sound scientific risk assessments and associated risk management control strategies for both tropospheric and stratospheric pollutants. Serves as a graduate textbook and "must have" reference for all atmospheric scientists Provides more than 5000 references to the literature through the end of 1998 Presents tables of new actinic flux data for the troposphere and stratosphere (0-40km) Summarizes kinetic and photochemical data for the troposphere and stratosphere Features problems at the end of most chapters to enhance the book's use in teaching Includes applications of the OZIPR box model with comprehensive chemistry for student use

Making Things Change Jun 09 2021 Provides instructions for science experiments such as making invisible ink, separating mixtures, and splitting colors.

DIY Science Jun 16 2019 * 88 1/2 quick, easy and step-by-step experiments covering key science curriculum topics such as materials, forces and the human body * Discover quirky, funny or important facts about famous scientists and experiments * Features multiple choice questions for the reader to predict the outcome of the experiment. * Bright and bold illustrations as well as photos and infographics combine to provide easy-to-understand instructions DIY Science is perfect for budding scientists keen to find out why things fizz, how

Romans made soap or how you make edible foam. Each experiment uses easy-to-find ingredients and objects. DIY Science includes 88 1/2 experiments that are guaranteed to blow your socks off! Explore the science behind air, water, mixtures, materials, energy, forces, magnets, the human body and nature using easy-to-find ingredients. What's next? features provide experiment variation and follow-up. Encourage children to think scientifically and outside of the box while learning about different scientific topics in the comfort of the home or classroom.

Crazy Concoctions Dec 15 2021 Presents simple science experiments and recipes for mixtures of varying viscosity.

American Journal of Science Sep 19 2019 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.