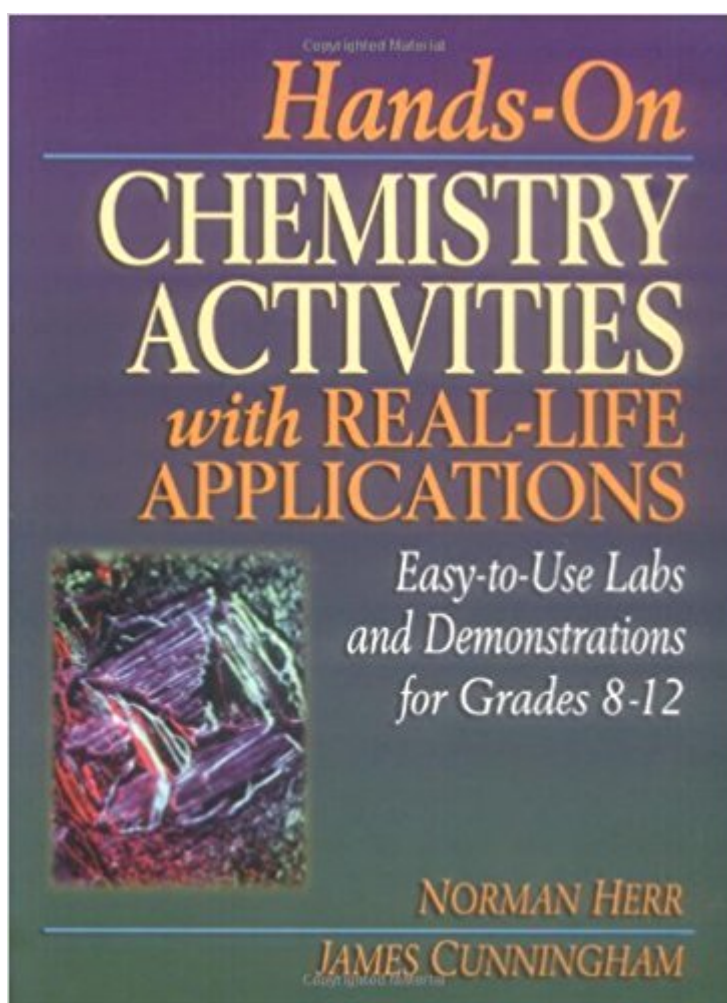


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Hands-On Chemistry Activities With Real-Life Applications: Easy-to-Use Labs And Demonstrations For Grades 8-12



Synopsis

This comprehensive collection of over 300 intriguing investigations—including demonstrations, labs, and other activities-- uses everyday examples to make chemistry concepts easy to understand. It is part of the two-volume PHYSICAL SCIENCE CURRICULUM LIBRARY, which consists of Hands-On Physics Activities With Real-Life Applications and Hands-On Chemistry Activities With Real-Life Applications.

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Customer Reviews

This comprehensive collection of over 300 intriguing investigations—including demonstrations, labs, and other activities—uses everyday examples to make chemistry concepts easy to understand. It is part of the two-volume PHYSICAL SCIENCE CURRICULUM LIBRARY, which consists of Hands-On Physics Activities With Real-Life Applications and Hands-On Chemistry Activities With Real-Life Applications. For easy use, all materials are organized into the five units of study listed below with their sections. Each unit offers a variety of lessons designed to provide interaction between students and their world in a way that encourages scientific reasoning.

MEASUREMENT: Language of Chemistry... Units of Measurement... Measurement

MATTER: Atomic Structure... The Periodic Law... Diffusion and Osmosis... Changes of State... Classification of Matter

CHEMICAL AND NUCLEAR REACTIONS: Chemical Bonding... Types of Chemical Reactions... Oxidation-Reduction (Redox) Reactions... Electrochemistry... Polymers... Nuclear Chemistry

THERMODYNAMICS AND KINETICS: Thermochemistry... Heat Transfer... Chemical

Kinetics... Chemical Equilibrium GASES, LIQUIDS, SOLIDS, AND MIXTURES: Gases... Colloids and Suspensions... Solutes, Solvents, Solutions... Colligative Properties... Acids and Bases... Acid and Base Reactions... Crystal and Crystallization Each easy-to-follow lesson format contains a concise introduction using common knowledge examples... reproducible pages for students... a "To the Teacher" information section... and a separate listing of additional, specific applications that students can relate to. More than 450 illustration and 100 tables supplement instruction, add interest, and heighten the learning process. Also included is a handy appendix in reproducible form that contains valuable tables, lists, information on safety, chemical procurement and preparation, and more. And as a special help, each lesson provides complete answer keys and enough detailed explanations to ensure success for even the inexperienced science teacher. You'll find Hands-On Chemistry Activities can be used to supplement any chemistry textbook or as a stand-alone chemistry program in itself. However you use it, these activities will help you inject new vitality into your curriculum!

Norman Herr is Professor of Science and computer Education at California State University, Northridge and a former high school science department chair. He lives in Sylmar, CA. James Cunningham is Professor of Science and Computer Education and Chair of the Department of Secondary Education at California State University, Northridge. He lives in Encino, CA.

Great book! As a homeschool family, we are enjoying the labs in this book. They truly do equate to everyday life and use material that are readily available. A great find for any highschool student!

This book is absolutely packed with ideas, applications, easy demos, and labs. Each concept is introduced or enriched with everyday applications to show students chemistry in action in the world around them. I can't wait for the school year to start so I can inject new life into my class discussions and labs. Just what I needed. Thanks to the authors!

My wife is a chemistry teacher and was in need of some new resources for activities. This book is the stuff, soon as she began flipping through it she said it was worth every penny and then some. Great resource.

Great book.

Good labs for homeschooling. Great directions, many many options throughout chemistry class.

This is a great book full of ideas and lab activities. Try Heros steam engine

This book provides over 300 investigations, demonstrations, labs and activities that use everyday examples to make chemistry interesting and easy to understand. It is applicable to grades 8-12 and provides basic chemistry instruction for the student.

Excellent

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