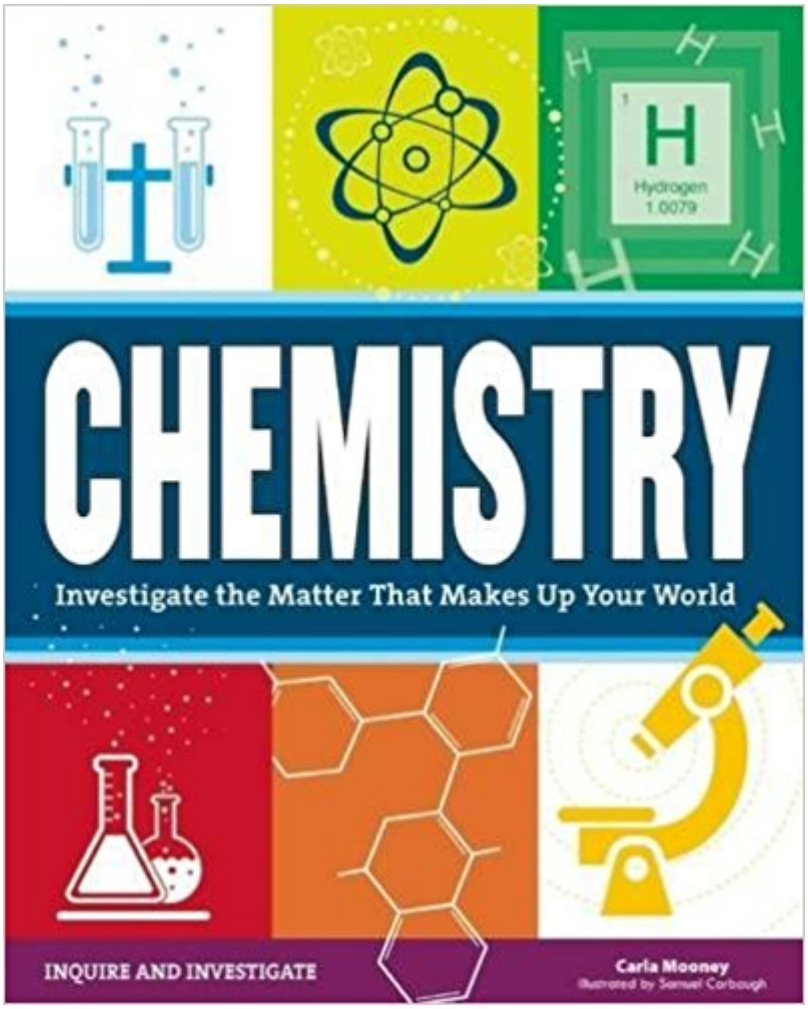
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Chemistry: Investigate The Matter That Makes Up Your World (Inquire And Investigate)



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Synopsis

Have you ever wondered what makes up everything in the world around you? Or what exactly is the difference between solids, liquids, and gases? Have you wanted to know what causes two substances to react or change?Chemistry: Investigate the Matter that Makes Up Your World introduces readers 12 through 15 to the fascinating world of protons, neutrons, and electrons. Learn how these molecules combine to form ordinary objects such as the chair youÃ¢â ¬â„¢re sitting on, the water in your glass, even you! Through hands-on, investigative projects, readers delve into the world of chemical reactions and changing matter, learning how these principles are used in many areas of science, from biochemistry to nuclear science.Combining hands-on science inquiry with chemistry, mathematics, and biology, projects include building models of molecules and bonds, identifying acids and bases, investigating the effect of temperature on reaction rate, and observing how a chemical reaction from vinegar, water, and bleach can accelerate the rusting of steel. Chemistry offers entertaining illustrations and fascinating sidebars to illuminate the topic and engage readers further, plus integrates a digital learning component by providing links to primary sources, videos, and other relevant websites.

Book Information

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Series: Inquire and Investigate
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Age Range: 12 - 15 years
Grade Level: 6 - 10

Customer Reviews

Gr 6-9-This title introduces readers to the wonders of chemistry and its far-reaching effects on our lives, from the carbonation in soda to nuclear reactions. A time line at the beginning of the book highlights scientific discoveries from the introduction of the idea of matter in the form of particles by Democritus in 460 BCE to the discovery of a new element in 2010. Each chapter explains an aspect of chemistry such as atoms, states of matter, compounds, and reactions. An "Inquire and Investigate" section in each chapter offers problems to solve and experiments to try. QR codes placed throughout lead to primary sources on the Internet. Those with a science bent will find the information easily accessible and concise, while those with little interest will be drawn to the colorful graphic illustrations and highlighted sidebars. The experiments provided will inspire and encourage further discovery of the world of science. VERDICT An additional purchase where science materials are in demand.-Denise Moore, formerly at O'Gorman Junior High School, Sioux Falls, SDÃ Â (c) Copyright 2011. Library Journals LLC, a wholly owned subsidiary of Media Source, Inc. No redistribution permitted.

National Science Teachers Association: "Chemistry is a short but sweet book that packs a powerful punch of learning about matter on every page. . . Chemistry is a very readable, motivating, and highly interactive resource designed to promote a love of learning about the world of matter for any middle school student."Booklist: ". . .Designed to help stimulate interest in science, this volume presents the material in a methodical but varied and interesting manner, beginning with the basic building blocks."SWON Libraries Consortium:". . . The text is colorful, engaging and concise while appealing to multiple types of learners through visuals, text and additional activities. . . .Recommended for purchase in public and school libraries for grades 6-9. This text would also be a stellar classroom resource for many teachers."Children's LiteratureAtomic theory, the Periodic Table, states of matter, acid and base chemistry, and nuclear chemistry are just a few of the topics explored in this concise overview of general chemistry. Well-written, scientifically accurate descriptions provide a useful impression of each topic, without overwhelming the reader with too much scientific jargon.School Library Journal: ". . . Those with a science bent will find the information easily accessible and concise, while those with little interest will be drawn to the colorful graphic illustrations and highlighted sidebars. The experiments provided will inspire and encourage further discovery of the world of science."School Library Connection:". . . This is a unique reference resource for upper elementary through high school students that want to learn more about the subject. Recommended."

The start of this book throws kids right into the importance of significant figures and unit arithmetic--things that took me WAY too long to be exposed to, given how useful they can be in lots of real world contexts. Tired of getting your unit conversions wrong because you can't remember whether you need to multiply or divide? No problem-- the method described here solves that perfectly.Oh, and it also talks about chemistry and stuff. :-)

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