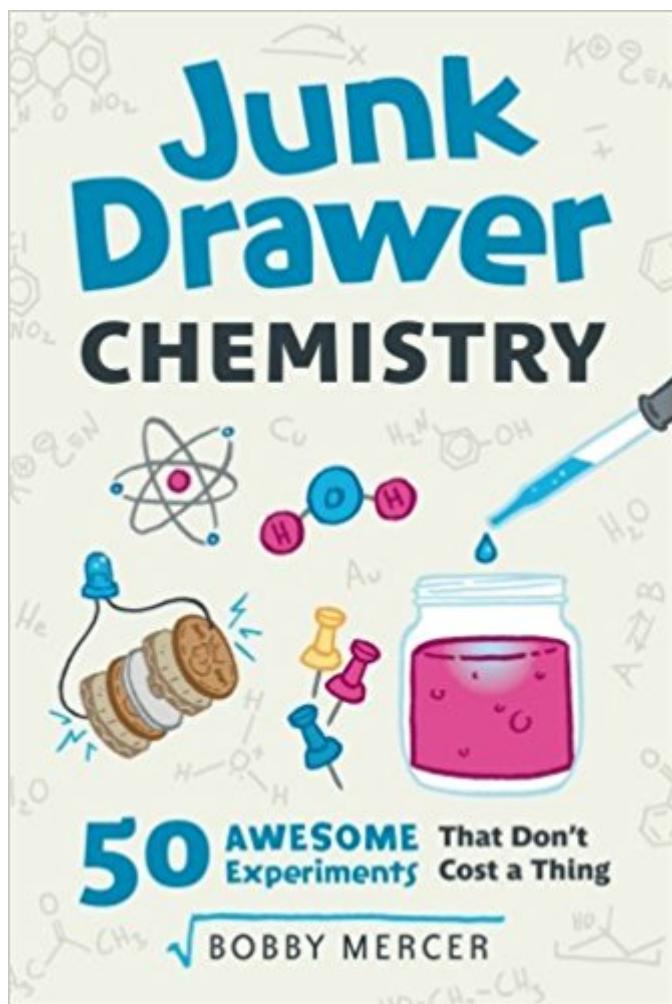


The book was found

Junk Drawer Chemistry: 50 Awesome Experiments That Don't Cost A Thing (Junk Drawer Science)



Synopsis

There's not need for expensive, high-tech lab equipment to conduct chemistry experiments—you probably have all you need in your home junk drawer. Turn three pennies and two galvanized washers into a simple battery. Crush a soda can using atmospheric pressure. Convert an LED flashlight into a simple electrolyte tester. Split liquid water into two unique gasses, or use cornstarch to create a gooey, mysterious, non-Newtonian fluid. And model radioactive decay using M&M's, or a chain reaction with a set of dominoes. Who needs a laboratory when you have a kitchen counter? Science teacher Bobby Mercer provides readers with more than 50 great hands-on experiments that can be performed for just pennies . . . or less. Each project has a materials list, detailed step-by-step instructions with illustrations, and a brief explanation of the scientific principle being demonstrated. Junk Drawer Chemistry also includes sidebars of fascinating chemistry facts: did you know that a lemon contains more sugar than a strawberry? Educators and parents will find this title a handy resource to teach children about chemistry topics that include atoms, compounds, solutions, mixtures, reactions, thermodynamics, acids and bases, and more, and have fun at the same time. Bobby Mercer has been a high school physics teacher for over two decades. He is the author of *Junk Drawer Physics*, *The Flying Machine Book*, and *The Racecar Book*, and lives with his family outside of Asheville, North Carolina.

Book Information

Series: Junk Drawer Science

Paperback: 224 pages

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Language: English

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ISBN-13: 978-1613731796

Product Dimensions: 6 x 0.5 x 9 inches

Shipping Weight: 12.6 ounces (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 4 customer reviews

Best Sellers Rank: #74,905 in Books (See Top 100 in Books) #18 in Books > Children's Books > Education & Reference > Science Studies > Chemistry #56 in Books > Children's Books > Science, Nature & How It Works > Experiments & Projects #1524 in Books > Children's Books > Activities, Crafts & Games > Activity Books

Age Range: 9 - 13 years

Grade Level: 4 and up

Customer Reviews

âœ[Junk Drawer Chemistry is] very highly recommended for family, school, and community library instructional reference collections.â • âœ"Midwest Book Reviewâœ[Bobby Mercer] has made doing these experiments not only challengingÂ but also great fun for your budding scientist.â •
âœ"Storywraps"Students and educators will enjoy this resource as it makes learning science fun and appealing." âœ"School Library Connection

Bobby MercerÂ has been sharing the fun of science for more than two decades as a high school physics teacher. He is the author ofÂ Junk Drawer Physics, a 2015 AAAS/Subaru SB&F Prize finalist;Â The Flying Machine Book;Â andÂ The Racecar Book.

I bought this for a 13 year old boy. He is going to love this.

Fun with the kids! Kids love trying out the experiments.

INTERESTING BOOK

Author and physics teacher Bobby Mercer guides and gives scientific explanations as kids use every day household objects to carry out chemistry experiments in the comfort of their own home. He lays the process out simply (step by step) and with the help of black and white photos (visually helpful for sure) they are easily accomplished. He includes such topics as:
*Properties of Matter
*Atoms, Compounds, Elements, and the Periodic Table
*Solutions
*Reactions
*Acids and Bases
*Radioactivity and Thermodynamics
They sound complicated but he has made doing these experiments not only challenging but also great fun for your budding scientist. For example with "Solutions" you unveil - Pop in a Glass, Mysterious Floating Egg, Sweet Crystals, Milk Art, No-So-Permanent Marker, Chalk Chromatography, Energy Drink Test, and My Soda Has Gas. How fun are they? Mercer then directs you to your private junk drawer to gather the precise equipment you will be needing to do the experiments, (and I love this part), he gives you the actual science behind it. He has inserted a glossary at the back of the book for extra information and knowledge. All is kid-friendly and green because you are reusing and repurposing items around your home. "Junk Drawer Chemistry" is a handy resource for educators, parents, and children. It is a perfect way to

develop creativity with inexpensive fun.

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