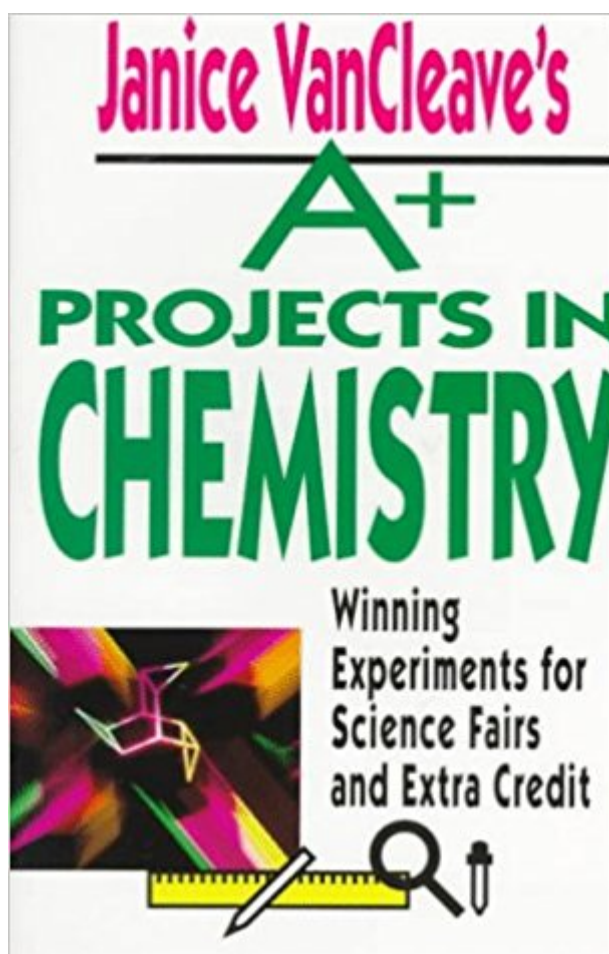


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# Janice VanCleave's A+ Projects In Chemistry: Winning Experiments For Science Fairs And Extra Credit



## Synopsis

Janice VanCleave's A+ Projects in Chemistry Are you having a hard time coming up with a good idea for the science fair? Do you want to earn extra credit in your chemistry class? Or do you just want to know how the world really works? Janice VanCleave's A+ Projects in Chemistry can help you, and the best part is it won't involve any complicated or expensive equipment. This step-by-step guide explores 30 different topics and offers dozens of experiment ideas. The book also includes charts, diagrams, and illustrations. Here are just a few of the topics you'll be investigating:

\*Acid/base reactions \* Polymers \* Crystals \* Electrolytes \* Denaturing proteins You'll be amazed at how easy it is to turn your ideas into winning science fair projects. Also available: Janice VanCleave's A+ Projects in Biology

## Book Information

Paperback: 240 pages

Publisher: Wiley; 1 edition (July 1993)

Language: English

ISBN-10: 0471586307

ISBN-13: 978-0471586302

Product Dimensions: 6.1 x 0.7 x 9.1 inches

Shipping Weight: 10.4 ounces (View shipping rates and policies)

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

Best Sellers Rank: #165,257 in Books (See Top 100 in Books) #12 in [Books > Teens > Education & Reference > Science & Technology > Experiments & Projects](#) #33 in [Books > Teens > Education & Reference > Science & Technology > Chemistry](#) #36 in [Books > Children's Books > Education & Reference > Science Studies > Chemistry](#)

Age Range: 12 - 17 years

Grade Level: 7 - 12

## Customer Reviews

Grade 6 Up-A collection of 30 projects. Although some are novel, most are repeats or modifications of familiar demonstrations on such topics as acid-base reactions, food chemistry, and properties of water. As VanCleave states, these are "cookbook experiments"-procedures are clearly written, common household materials are used, and the expected results are described. A detailed and sometimes sophisticated explanation follows along with interesting facts and suggestions for additional investigation. A few experiments require simple mathematical calculations.

Black-and-white line drawings aid in setting up the activities. Overall, the book does a fine job at what it does. However, while there are elements worth exploring in the suggested demonstrations, it is a poor model for science-fair projects because the answers are known before any experimentation is ever run. Alan Newman, American Chemical Society, Washington, DC Copyright 1994 Reed Business Information, Inc.

Janice VanCleave's A+ Projects in Chemistry Are you having a hard time coming up with a good idea for the science fair? Do you want to earn extra credit in your chemistry class? Or do you just want to know how the world really works? Janice VanCleave's A+ Projects in Chemistry can help you, and the best part is it won't involve any complicated or expensive equipment. This step-by-step guide explores 30 different topics and offers dozens of experiment ideas. The book also includes charts, diagrams, and illustrations. Here are just a few of the topics you'll be investigating: Acid/base reactions; Polymers; Crystals; Electrolytes; Denaturing proteins You'll be amazed at how easy it is to turn your ideas into winning science fair projects. Also available: Janice VanCleave's A+ Projects in Biology

well written book contain a wide variety of simple chemistry experiments with materials obtained in local resources. Clearly written & explained, supports typical theory which is better realized through demonstrations.

A+ Projects in Chemistry isn't just a list of things to do. It suggests experiments and invites the reader to choose any number of approaches, leaving the field wide open instead of suggesting a rocket or volcano. Better than that (in my opinion), is that it asks questions that make it almost irresistible to stop and find the answers. Just looking through a few pages I kept thinking, "I would need to keep a binder/notebook with this to write the answers in," and "Maybe I should read the whole book, not just the sections I'm interested in." I must admit that almost anything to do with science makes me cheerful so results will vary with your young scientist. I found this book to be inspiring (what I read of it), and I wish I wasn't too old for a school science fair!

Janice VanCleave's A+ Projects in Chemistry: Winning Experiments for Science Fairs and Extra Credit is a book that I would recommend to anyone who is having trouble thinking of a science fair project or doesn't know how to go about their experimentation. The book gives a list of what types of projects one might be interested in, which narrows choices down considerably. Janice VanCleave

made finding a science project easier by naming and describing specific projects instead of just topics. When explaining a project she gives the materials list, the exact procedure, and the results that one should have. Not only does she include the basic information specifically needed for the project, but she also includes helpful hints on being successful in the display of the project and tells the reasons for the results to end up as they did. This book has been a tremendous help to me. I think that it can help others do fantastic science projects as well. It was easy to find what I was looking for, and when I found it, it was even easier to understand without scientific phraseology that tends to be confusing.

I found this book to be incredibly helpful and it helped me to finish a much needed science project. I enjoyed these fun ideas and learned a lot.

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