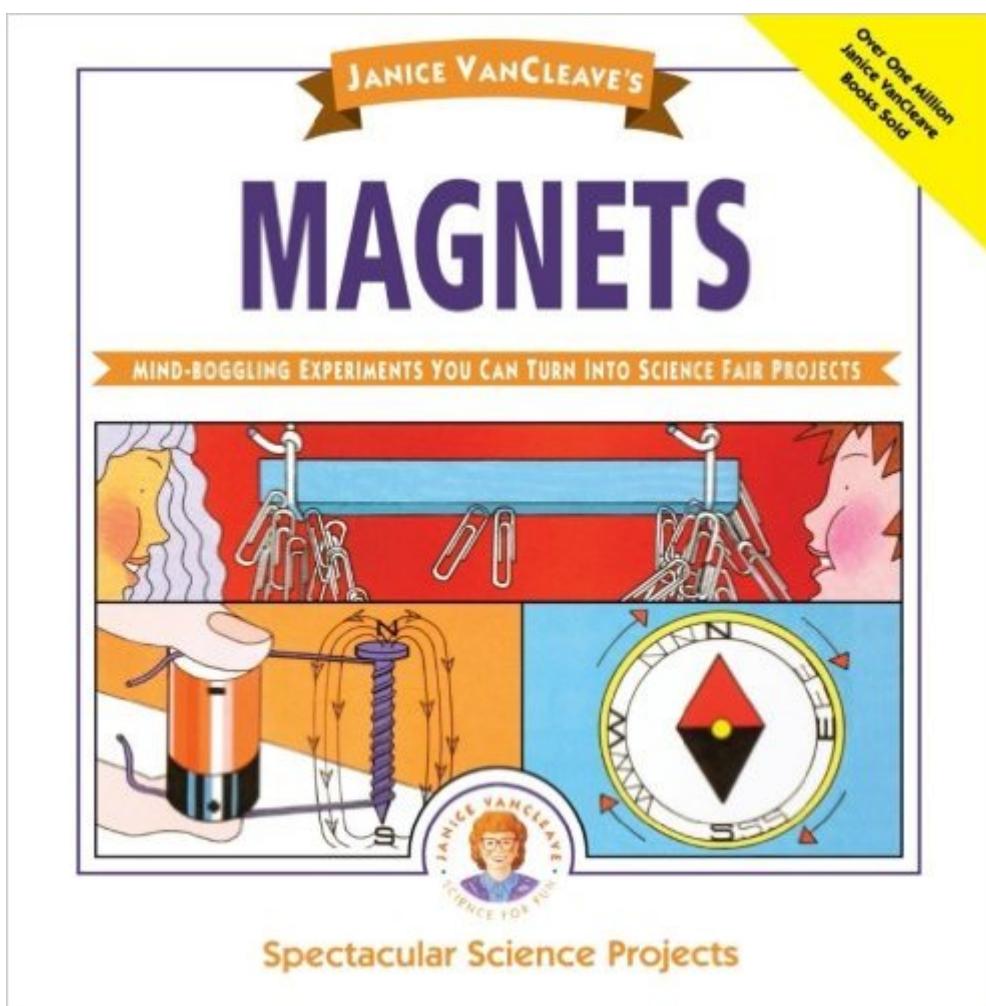


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# Janice VanCleave's Magnets: Mind-boggling Experiments You Can Turn Into Science Fair Projects



## **Synopsis**

The perfect science fair idea books. Spectacular Science Projects Janice VanCleave's Magnets \* How does a compass work? \* What is a magnetic field? \* How can you make a magnet with electricity? Janice VanCleave's Magnets includes 20 simple and fun experiments that allow you to discover the answers to these and other fascinating questions about magnets, plus dozens of additional suggestions for developing your own science fair projects. Learn about magnetic poles using a bar magnet, paper, and string; about magnetic force fields with a compass, a pencil, and a sheet of paper; and much more. All experiments use inexpensive household materials and involve a minimum of preparation and clean up. Children ages 8-12 Also available in the Spectacular Science Projects Series: Janice VanCleave's Animals Janice VanCleave's Earthquakes Janice VanCleave's Electricity Janice VanCleave's Gravity Janice VanCleave's Machines Janice VanCleave's Molecules Janice VanCleave's Microscopes and Magnifying Lenses Janice VanCleave's Volcanoes Janice VanCleave's Weather

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Age Range: 8 - 12 years

Grade Level: 3 - 7

## **Customer Reviews**

My first grader is participating in a science fair for the first time this year, and expressed interest in magnets. My husband and I were looking for a book that would provide some ideas on magnets-based projects and this is one book that has plenty of good ideas in it. The author begins

the book with some handy tips on how to prepare for a science fair project. This is followed by various experiments using magnets, such as mapping, plotting, protector, dipper, back and forth, temporary, permanent, attractive spirals, demagnetize, pushing and pulling, etc. Each experiment is explained in detail with a format like this: Problem - states the problem Materials - list of things required for the experiment Procedure - step-by-step listing of what is to be done during the experiment Results - what happens Why? - explains why this occurs Let's Explore - provides ideas on how a simple experiment can be expanded into a project Showtime! - ideas on presentation Check It Out! - further ideas, reading, etc. Verdict - a simple yet informative book, perfect for beginners exploring ideas on magnetism for science fair projects.

My 9 year old grandson loves the book, and is doing a science project for the first time this year. He plays with magnets all the time and is fasinated by them, hence they will be the main focus for his project. Thank you for the discounted price and the truth in telling that the book was in good condition and it was. I'm sure his project will be a success and he's also learning new things about magnets.

What a great book! My seven year old is very interested in magnets, and now we have all the possible experiments we could ever need at our fingertips. The book was in good condition as listed.

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