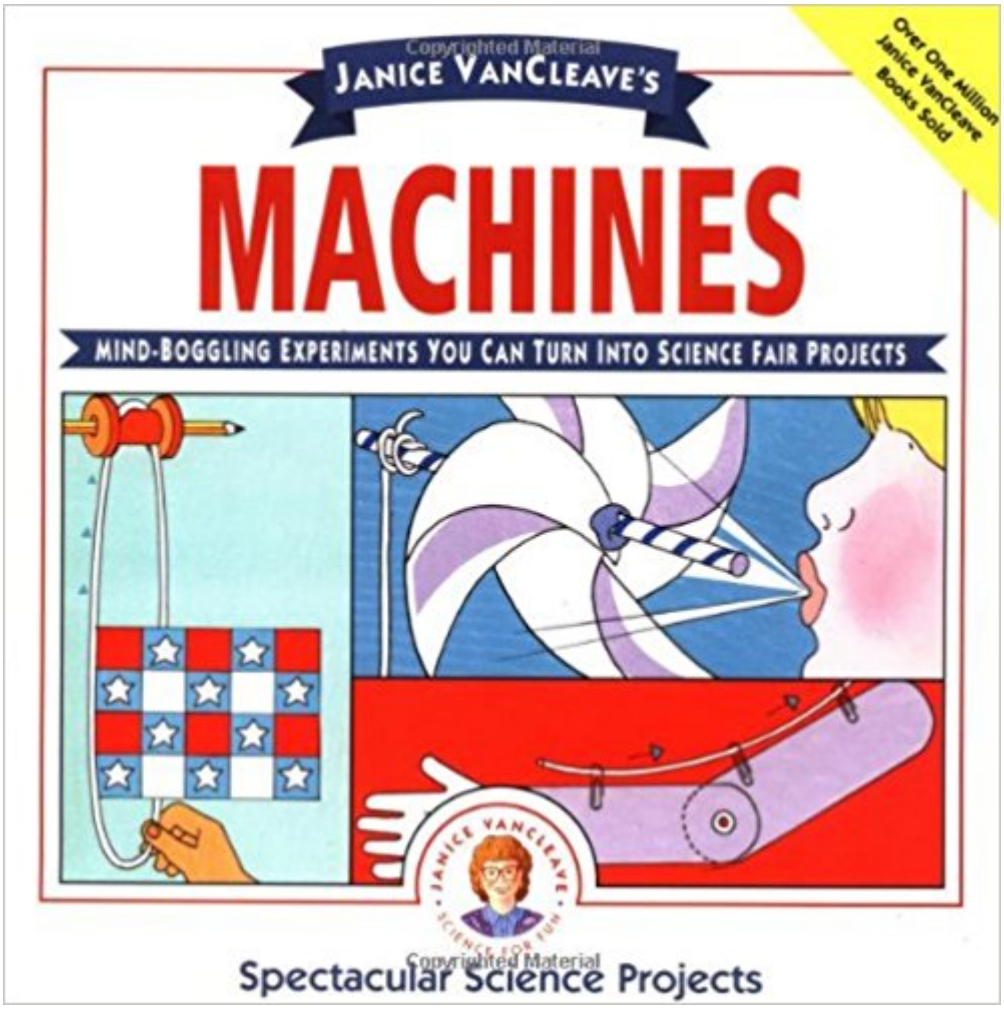
Janice VanCleave's Machines: Mind-boggling Experiments You Can Turn Into Science Fair Projects



Synopsis

How is your forearm like a lever? * What makes it easy to pull a flag up a flagpole? * How can a windmill help to do work? Janice VanCleave's Machines includes 20 simple and fun experiments that allow you to discover the answers to these and many other questions, plus dozens of additional suggestions on how to develop your own science fair project. Learn how an elevator works using a box, string, a paper cup, and some coins; build a bubble machine with cardboard boxes, Styrofoam, and wire; and much more. All experiments use inexpensive 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 Magnets * Janice VanCleave's Molecules * Janice VanCleave's Microscopes and Magnifying Lenses * Janice VanCleave's Volcanoes * Janice VanCleave's Weather

Book Information

Age Range: 8 and up

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Customer Reviews

Grade 3-6-- These series entries focus on easily accomplished experiments that display scientific properties of earthquakes, machines, and magnets. Following an established format, each volume presents a "cookbook" style recipe for an activity, with simple steps and guaranteed results. The explanations in the "Why?" section are appropriate for the intended audience, and the very clear

glossaries neither oversimplify nor talk down to readers. Enticing teasers follow most projects in "Check It Out" sections, e.g., how did Archimedes pull the ship along the beach singlehandedly? While there is certainly no lack of science-project books aimed at various grade levels, such as Helen Challand's Experiments with Magnets (Childrens, 1986) or Adkin's Moving Heavy Things (Houghton, 1980), these three are noteworthy additions to most collections. After all, with their easy directions, inexpensive materials, and further challenges for inquiring minds, what more could readers want? --Anita Palladino, Finkelstein Memorial Library, Spring Valley, NY

What is a first-class lever and the advantage in using one? How does a windmill work? Are human beings machines? Children will learn the answers to these questions and more by conducting safe experiments using materials found in the home. A fun-filled and educational way to explore science including ideas for further experimentation and hints on turning experiments into science fair projects. Illustrated.

Great series! I got this one and then ordered most of the other books too. I also recommend it for children ages 6-9. Good way to learn science in a hands-on way.

Janice VanCleave's Machines: Mind-boggling Experiments You Can Turn Into Science Fair Projects Janice VanCleave's Magnets: Mind-boggling Experiments You Can Turn Into Science Fair Projects Janice VanCleave's Physics for Every Kid: 101 Easy Experiments in Motion, Heat, Light, Machines, and Sound (Science for Every Kid Series) Janice VanCleave's A+ Projects in Earth Science: Winning Experiments for Science Fairs and Extra Credit Janice VanCleave's A+ Science Fair Projects Janice VanCleave's Physics for Every Kid: 101 Easy Experiments in Motion, Heat, Light, Machines, and Sound Janice VanCleave's A+ Projects in Physics: Winning Experiments for Science Fairs and Extra Credit Janice VanCleave's A+ Projects in Biology: Winning Experiments for Science Fairs and Extra Credit Janice VanCleave's A+ Projects in Chemistry: Winning Experiments for Science Fairs and Extra Credit Janice VanCleave's Earth Science for Every Kid: 101 Easy Experiments that Really Work Janice VanCleave's Astronomy for Every Kid: 101 Easy Experiments that Really Work Janice VanCleave's 201 Awesome, Magical, Bizarre, & Incredible Experiments Janice VanCleave's Biology For Every Kid: 101 Easy Experiments That Really Work Janice VanCleave's Chemistry for Every Kid: 101 Easy Experiments that Really Work Janice VanCleave's 201 Awesome, Magical Bizarre, and Incredible Experiments Janice VanCleave's Food and Nutrition

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