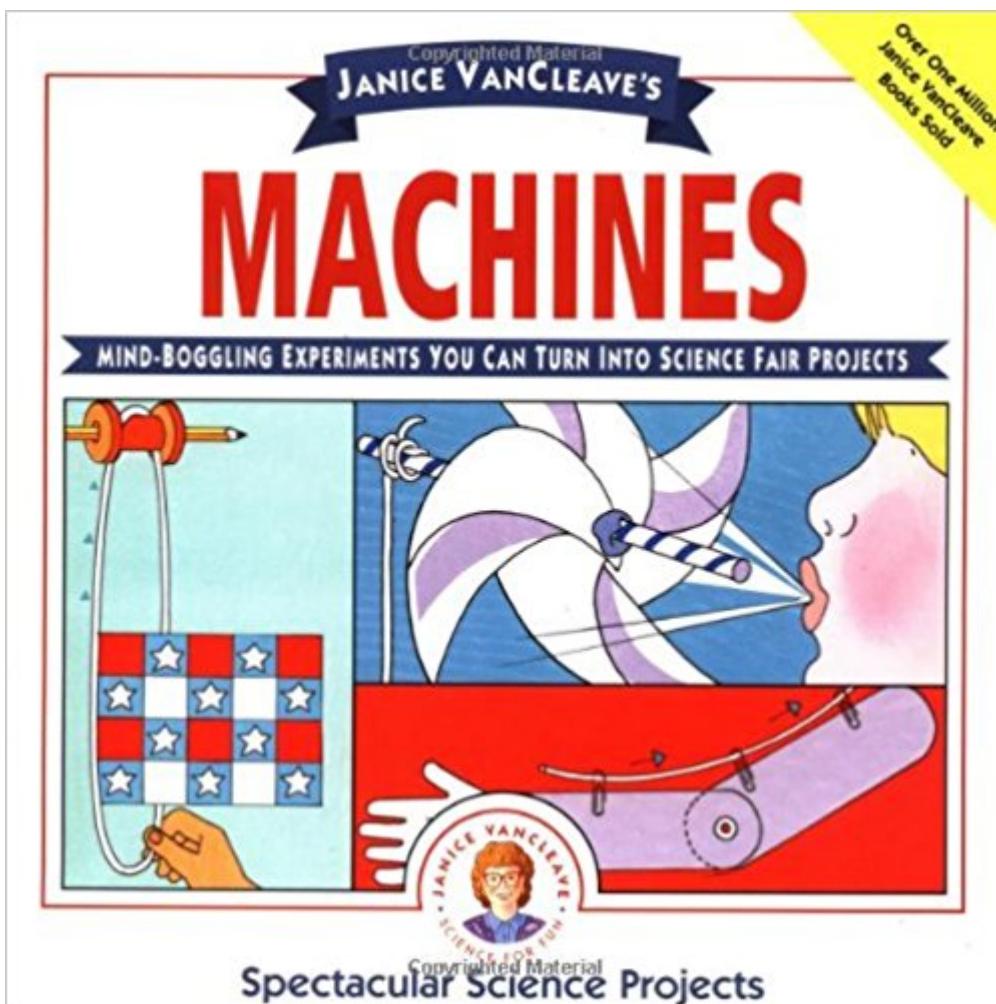


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# Janice VanCleave's Machines: Mind-boggling Experiments You Can Turn Into Science Fair Projects



## **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, NYCopyright 1993 Reed Business Information, Inc.

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.

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