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# Janice VanCleave's A+ Science Fair Projects



## Synopsis

A fabulous collection of science projects, explorations, techniques, and ideas! Looking to wow the judges at the science fair this year? Everyone's favorite science teacher is here to help. Janice VanCleave's *A+ Science Fair Projects* has everything you need to put together a winning entry, with detailed advice on properly planning your project, from choosing a topic and collecting your facts to designing experiments and presenting your findings. Featuring all-new experiments as well as time-tested projects collected from Janice VanCleave's *A+* series, this easy-to-follow guide gives you an informative introduction to the science fair process. You get thirty-five complete starter projects on various topics in astronomy, biology, chemistry, earth science, and physics, including explorations of:

- \* The angular distance between celestial bodies
- \* The breathing rate of goldfish
- \* Interactions in an ecosystem
- \* Nutrient differences in soils
- \* Heat transfer in the atmosphere
- \* Magnetism from electricity
- \* And much more!

You'll also find lots of helpful tips on how to develop your own ideas into unique projects. *Janice VanCleave's A+ Science Fair Projects* is the ideal guide for any middle or high school student who wants to develop a stellar science fair entry.

## Book Information

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Age Range: 12 - 17 years

Grade Level: 6 - 12

## Customer Reviews

Whether your favorite middle or high-school student is interested in the demonstrating the greenhouse effect (with shoeboxes, soil, and plastic food wrap), sympathetic vibration (with a couple

of soda bottles), or the breathing rate of goldfish, former science teacher Janice VanCleave provides helpful advice for designing experiments to impress judges at the science fair. In the first section, the author explains the importance of understanding the scientific method, selecting a topic, identifying its category, research, overview, experimental data, project summaries, the display, and presentation and evaluation. The second part of the book offers project ideas for 35 science fair topics within the categories of astronomy, biology, chemistry, earth science, and physics, stressing that "The point is not to copy the projects in this book but to use them as exploratory experiments...." Each experiment is clearly presented with a brief introduction, a statement of purpose, a list of needed materials, a step-by-step procedure, a description and explanation of the results, and ideas for taking the experiment in different directions. Nine appendices provide additional information on random error of measurement, percentage error, sources of scientific supplies, and more, and a glossary and index conclude the book. VanCleave comes through again with this inspiring, no-nonsense resource for science fair participants. (Ages 11 and older)

A fabulous collection of science projects, explorations, techniques, and ideas! Looking to wow the judges at the science fair this year? Everyone's favorite science teacher is here to help. Janice VanCleave's A+ Science Fair Projects has everything you need to put together a winning entry, with detailed advice on properly planning your project, from choosing a topic and collecting your facts to designing experiments and presenting your findings. Featuring all-new experiments as well as time-tested projects collected from Janice VanCleave's A+ series, this easy-to-follow guide gives you an informative introduction to the science fair process. You get thirty-five complete starter projects on various topics in astronomy, biology, chemistry, earth science, and physics, including explorations of: The angular distance between celestial bodies The breathing rate of goldfish Interactions in an ecosystem Nutrient differences in soils Heat transfer in the atmosphere Magnetism from electricity And much more! You'll also find lots of helpful tips on how to develop your own ideas into unique projects. Janice VanCleave's A+ Science Fair Projects is the ideal guide for any middle or high school student who wants to develop a stellar science fair entry.

Great book great price.

Some too simple for middle and high school competitors at this time.

Pretty worn but still very useful. It will be used by a teacher in Belize for science fair projects. She requested it.

Not what I was expecting but it will do.

Some experiments not experimental

A+ in our science project! What else can I say. This book basically tells you what to do

very nice, quickly delivered.

Great instruction for parents on what to do to channel your child's effort when he or she is creating a science fair project.

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