

janice vancleaves magnets mind boggling experiments you can turn into science fair projects

[#Janice VanCleave](#) [#magnet experiments](#) [#science fair projects](#) [#kids magnetism activities](#) [#mind-boggling science](#)

Explore the fascinating world of magnetism with Janice VanCleave's mind-boggling experiments. These captivating activities are not only incredibly fun but also perfectly designed to be transformed into impressive and educational science fair projects, inspiring young scientists to discover the wonders of magnetic forces.

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Janice Vancleave's Magnets

A collection of science projects and experiments using magnets.

Janice VanCleave's Magnets

A collection of science projects and experiments using magnets.

Janice Vancleave's Machines

The perfect science fair idea books . Spectacular Science Projects Janice Vancleave's Electricity * How do you make a battery out of a lemon? * Can a magnet produce electricity? * How does a flashlight work? Janice VanCleave's Electricity includes 20 simple and fun experiments that allow you to discover the answers to these and other fascinating questions about electricity, plus dozens of additional suggestions for developing your own science fair projects. Learn about electric charges with a simple experiment using modeling clay and a plastic straw; about voltage using a bowl, paper towels, and a raw egg; about conductors with some clothespins, aluminum foil, and a flashlight bulb; and much more. All experiments are safe, 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 Gravity Janice VanCleave's Machines Janice VanCleave's Magnets Janice VanCleave's Molecules Janice VanCleave's Microscopes and Magnifying Lenses Janice VanCleave's Volcanoes Janice VanCleave's Weather

Janice VanCleave's Electricity

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

Janice VanCleave's Machines

Why are plants green? * How does water move through a leaf? * What are the parts of a flower? Janice VanCleave's Plants includes 20 fun and simple experiments that allow you to discover the answers to these and other fascinating questions about plants, plus dozens of additional suggestions for developing your own science fair projects. Use a cooking pot and pot of grass to discover why green grass turns yellow. Make a model of a plant cell from peanuts, gelatin, and a plastic bag. Grow pinto beans in a plastic cup to learn how seedlings develop. All experiments use inexpensive household materials and involve a minimum of preparation and cleanup. 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 Magnets * Janice VanCleave's Microscopes and Magnifying Lenses * Janice VanCleave's Molecules * Janice VanCleave's Rocks and Minerals * Janice VanCleave's Volcanoes * Janice VanCleave's Weather

Janice VanCleave's Plants

The perfect science fair idea books Spectacular Science Projects Janice VanCleave's Volcanoes Why do volcanoes erupt? How do scientists predict volcanoes? Where are most volcanoes found? Janice VanCleave's Volcanoes includes 20 fun and simple experiments that allow you to discover the answers to these and other fascinating questions about volcanoes, plus dozens of additional suggestions for developing your own science fair projects. Learn about predicting volcanic eruptions with a simple experiment using a magnet, a nail, and a piece of cardboard. Explore the fiery unseen interior of a volcano using a potato and a plastic soda bottle. Find out how lava forms into rocks using marbles in a box. 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 Magnets Janice VanCleave's Molecules Janice VanCleave's Microscopes and Magnifying Lenses Janice VanCleave's Weather

Janice VanCleave's Volcanoes

Provides instructions for a variety of experiments and science fair projects exploring the solar system, including the sun, moon, planets, comets, and meteorites.

Janice VanCleave's Solar System

The perfect science fair idea books ... Spectacular Science Projects Janice VanCleave's Weather Why does it rain? What causes thunder and lightning? How does a cloud form? Janice VanCleave's Weather includes 20 fun and simple experiments that allow you to discover the answers to these and other fascinating questions about weather, plus dozens of additional suggestions for developing your own science fair projects. Learn what causes lightning with a simple experiment using a roll of tape in a darkened room. Make a barometer from a soda bottle, straws, modeling clay, and colored water. Use a shoe box, plastic wrap, and some soil to understand the greenhouse effect. All experiments use inexpensive household materials and involve a minimum of preparation and cleanup. 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 Magnets, Janice VanCleave's Molecules, Janice VanCleave's Microscopes and Magnifying Lenses, Janice VanCleave's Volcanoes Kids, join the Science for Every Kid Club.

Janice VanCleave's Weather

Janice VanCleave once again ignites children's love for science in her all-new book of fun experiments—featuring a fresh format, new experiments, and updated content standards. From everyone's favorite science teacher comes Janice VanCleave's Big Book of Science Experiments. This user-friendly book gets kids excited about science with lively experiments designed to spark imaginations and encourage science learning. Using a few handy supplies, you will have your students exploring the wonders of science in no time. Simple step-by-step instructions and color illustrations help you easily demonstrate the fundamental concepts of astronomy, biology, chemistry, and more. Children will delight in making their own slime and creating safe explosions as they learn important science skills and processes. Author Janice VanCleave passionately believes that all children can learn science. She has helped millions of students experience the magic and mystery of science with her time-tested, thoughtfully-designed experiments. This book offers both new and classic activities that cover the four dimensions of science—physical science, astronomy, Biology, and Earth Science—and provide a strong foundation in science education for students to build upon. An ideal resource for both classroom and homeschool environments, this engaging book: Enables students to experience science first-hand and discuss their observations Offers low-prep experiments that require simple, easily-obtained supplies Presents a modern, full-color design that appeals to students Includes new experiments, activities, and lessons Correlates to National Science Standards Janice VanCleave's Big Book of Science Experiments is a must-have book for the real-world classroom, as well as for any parent seeking to teach science to their children.

Janice VanCleave's Big Book of Science Experiments

The perfect science fair idea books . Spectacular Science Projects Janice VanCleave's Weather * Why does it rain? * What causes thunder and lightning? * How does a cloud form? Janice VanCleave's Weather includes 20 fun and simple experiments that allow you to discover the answers to these and other fascinating questions about weather, plus dozens of additional suggestions for developing your own science fair projects. Learn what causes lightning with a simple experiment using a roll of tape in a darkened room. Make a barometer from a soda bottle, straws, modeling clay, and colored water. Use a shoe box, plastic wrap, and some soil to understand the greenhouse effect. All experiments use inexpensive household materials and involve a minimum of preparation and cleanup. 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 Magnets Janice VanCleave's Molecules Janice VanCleave's Microscopes and Magnifying Lenses Janice VanCleave's Volcanoes Kids.

Janice VanCleave's Weather

In a series of fun and involving hands-on physics experiments, kids charge an object with static electricity, demonstrate how static charges produce sound, use magnetic force to suspend a paper airplane, determine that objects in water have a different weight than they do in air, and learn how a substance's buoyancy can be changed. They will also determine if shape determines the strength of an object, learn the effect that an object's center of gravity has on motion, demonstrate how the length of a pendulum affects the time of each swing, and discover how the center of gravity is also the balancing point of an object. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave again shows just how much fun science can be.

Janice VanCleave's Wild, Wacky, and Weird Physics Experiments

What are fossils? * How do stalactites and stalagmites form? * Can rock melt? Janice VanCleave's Rocks and Minerals includes 20 fun and simple experiments that allow you to discover the answers to these and other fascinating questions about rocks and minerals, plus dozens of additional suggestions for developing your own science fair projects. See how sedimentary rock is formed using two pillows, a yardstick, and some masking tape. Make models of rocks and minerals with gumdrops, toothpicks, and plastic bags. Learn what carbonate minerals are and how to identify them using a glass jar, some vinegar, and an egg. 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 Magnets Janice VanCleave's Molecules Janice VanCleave's Microscopes and Magnifying Lenses Janice VanCleave's Volcanoes Janice VanCleave's Weather

Janice VanCleave's Rocks and Minerals

The perfect science fair idea books. Spectacular Science Projects Janice VanCleave's Earthquakes * What is the San Andreas Fault? * Where are earthquakes most likely to happen? * How can you make a seismograph? Janice VanCleave's Earthquakes includes 20 simple and fun experiments that allow you to discover the answers to these and other fascinating questions about earthquakes, plus dozens of additional suggestions for developing your own science fair project. Learn about seismic waves with a friend using a piece of rope; about the Richter scale with a cardboard box, popcorn, and a yardstick; and much more. All experiments use inexpensive household materials and involve a minimum of preparation and cleanup. Children ages 8-12 Also available in the Spectacular Science Projects Series: Janice VanCleave's Animals Janice VanCleave's Electricity Janice VanCleave's Gravity Janice VanCleave's Machines Janice VanCleave's Magnets Janice VanCleave's Molecules Janice VanCleave's Microscopes and Magnifying Lenses Janice VanCleave's Volcanoes Janice VanCleave's Weather

Janice VanCleave's Earthquakes

In a series of fun and involving hands-on physics experiments, kids charge an object with static electricity, demonstrate how static charges produce sound, use magnetic force to suspend a paper airplane, determine that objects in water have a different weight than they do in air, and learn how a substance's buoyancy can be changed. They will also determine if shape determines the strength of an object, learn the effect that an object's center of gravity has on motion, demonstrate how the length of a pendulum affects the time of each swing, and discover how the center of gravity is also the balancing point of an object. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave again shows just how much fun science can be.

More of Janice VanCleave's Wild, Wacky, and Weird Physics Experiments

Krishnamurti explores the origin and roots of thought, the limits of consciousness, the nature of pleasure and joy, personal relationships and meditation, all of which revolve around the central issues of the search for self-knowledge.

The Impossible Question

Suggests science projects demonstrating various aspects of rocks and minerals

Janice VanCleave's Rocks and Minerals

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.

Janice VanCleave's A+ Science Fair Projects

For more than thirty years, humankind has known how to grow enough food to end chronic hunger worldwide. Yet while the "Green Revolution" succeeded in South America and Asia, it never got to Africa. More than 9 million people every year die of hunger, malnutrition, and related diseases every year - most of them in Africa and most of them children. More die of hunger in Africa than from AIDS and malaria combined. Now, an impending global food crisis threatens to make things worse. In the west we think of famine as a natural disaster, brought about by drought; or as the legacy of brutal dictators. But in this powerful investigative narrative, Thurow & Kilman show exactly how, in the past few decades, American, British, and European policies conspired to keep Africa hungry and unable to feed itself. As a new generation of activists work to keep famine from spreading, *Enough* is essential reading on a humanitarian issue of utmost urgency.

Enough

The author's hands-on science books for kids ages 8 through 12 have set a new standard in science activity books. Children, parents, and teachers have come to love them for their dozens of illuminating illustrations, VanCleave's economical, friendly style, and above all, the hundreds of safe, low-cost experiments and activities that make learning scientific basics an exciting adventure.

Astronomy for Every Kid

Ignite a passion for science in your student or child with these fascinating physics experiments for kids! Janice VanCleave's *Physics for Every Kid: Easy Activities That Make Learning Science Fun*, 2nd Edition offers new and lively experiments designed to ignite a passion for science in every child. Designed for children of all ages, this book includes high-interest experiments suitable for home learning, science fair participation, and active classrooms. *Physics for Every Kid* is sure to engage the natural curiosity of children with experiments that stimulate the mind and encourage a foundation in the principles of physics. With common household items, you'll be able to create: Pendulums Air cars Experiments exploring magnets, sound, motion, light, and more. This update to the celebrated Janice VanCleave series includes a fresh new look with full-color illustrations and easy-to-understand explanations for each experiment. Perfect for educators and parents of middle school students, *Physics for Every Kid* can be used at home just for do-it-yourself science fun and in the classroom to build learning experiences that enlighten and entertain students.

Janice VanCleave's Physics for Every Kid

A collection of science experiments and projects exploring gravity.

Janice VanCleave's Gravity

Young scientists will learn the power of physics when they make their own lemon batteries, demonstrate centrifugal force, and exhibit how sound energy travels. They will identify magnetic poles, learn what the best conductor for heat is, and even determine why eggs don't break beneath their bird guardians. Color illustrations and safe, simple step-by-step instructions will guide readers through this collection of twenty-four physics experiments from celebrated educator Janice VanCleave, empowering them to learn in a tactile and entertaining way.

Janice VanCleave's Crazy, Kooky, and Quirky Physics Experiments

Whether trying to land that first big gig or working to perfect the necessary skills to fill a game world with sound, Aaron Marks' *Complete Guide to Game Audio* 3rd edition will teach the reader everything they need to know about the audio side of the multi-million dollar video game industry. This book builds upon the success of the second edition with even more expert advice from masters in the field and notes current changes within the growing video game industry. The tools of the trade excerpts will showcase what professionals, like Marty O'Donnell, Richard Jacques and Tom Salta, use to create

their work and to help newcomers in the field prepare their own sound studios. Sample contracts are reviewed within the text as well as helpful advice about contractual terms and negotiable points. These sample contracts can also be found as a downloadable zip for the reader's convenience. Aaron Marks also explores how to set your financial terms and network efficiently along with examples of how projects can go completely awry and achieving the best results in often complicated situations. Aaron Marks' Complete Guide to Game Audio serves as the ultimate survival guide to navigating an audio career in the video game industry. Key Features New, full color edition with a complete update of information. Added and expanded coverage of field recording for games, creating voiceovers, adaptive and interactive audio and other cutting edge sound creation and implementation techniques used within games. Update/Replacement of interviews. Include interviews/features on international game audio professionals New and expanded interview features from game composers and sound designers of every experience level such as Keith Arem, Bradley Meyer, Christopher Tin and Rodney Gates including many international professionals like Pasi Pitkanen, Henning Nügel and Christos Panayides. Expanded and updated game console coverage of the Wii, Wii U, Xbox 360, Xbox One, PS3 and PS4. Includes new scripting and middleware concepts and techniques and review of powerful tools such as FMOD and Wwise.

Aaron Marks' Complete Guide to Game Audio

Summary: Presents thirty sample projects that examine various principles of physics and are suitable for science fairs.

Janice VanCleave's A+ Projects in Physics

How do planes fly? What makes bubbles in a bubble bath? Why don't eggs break under a chicken? Come and find out! How? By choosing one of the 50 simple experiments in Janice VanCleave's Play and Find Out about Science. Your child will discover the answers to lots of fun questions as you team up to play together and explore the wonder of our world. Each experiment includes illustrations, a list of easy-to-find materials, and simple, step-by-step instructions. Coming soon . . . Janice VanCleave's Play and Find Out about Nature Janice VanCleave's Play and Find Out about Math Janice VanCleave's Play and Find Out about the Human Body Praise for Janice VanCleave's books: "Stunningly clear, direct, and informative projects." —School Library Journal "[They] not only teach children the basics of science, but also entertain along the way. . . . great for kids." —Parentguide

Janice VanCleave's Play and Find Out about Science

Provides step-by-step instructions for experiments in force and energy.

Step-by-Step Science Experiments in Energy

* Why does a water drop magnify? * How do crystals form? * What does the inside of a seed look like? Janice VanCleave's Microscopes and Magnifying Lenses includes 20 simple and fun experiments that allow you to discover the answers to these and many other questions, plus dozens of suggestions on how to develop your own science fair projects. Grow penicillium mold in apple cider, compare your own and your friend's fingerprints, and investigate the lives of microscopic water fleas, all with either a microscope or simple magnifying lens. 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 Machines * Janice VanCleave's Magnets * Janice VanCleave's Molecules * Janice VanCleave's Volcanoes * Janice VanCleave's Weather

Janice VanCleave's Microscopes and Magnifying Lenses

Standards were developed to guide educational leaders in recognizing and addressing the essential conditions for effective use of technology to support P-12 education.

National Educational Technology Standards for Teachers

Mollusks have been important to humans since our earliest days. Initially, when humans were primarily interested in what they could eat or use, mollusks were important as food, ornaments, and materials for tools. Over the centuries, as human knowledge branched out and individuals started to study the world around them, mollusks were important subjects for learning how things worked. In this volume, the

editors and contributors have brought together a broad range of topics within the field of malacology. It is our expectation that these topics will be of interest and use to amateur and professional malacologists.

The Mollusks

An elementary science experiment book that provides young scientists with safe, workable astronomy projects.

Janice VanCleave's Astronomy for Every Kid

* Complete rules and display tips * Hundreds of exciting projects * Helpful do's and don'ts * 50 fun, step-by-step experiments More Winning Science Fair Projects, Hints, and Tips from Janice VanCleave! What can you do to create an extraordinary science project? How is a clear and easy-to-follow display organized? What are the do's and don'ts of science fair projects? Where will you find the best collection of science fair ideas? The answers--and the fun--are all in this exciting book of innovative, easy-to-understand, show-stopping science fair projects. Discover how to develop a topic from your own idea; research, create, and assemble your project; then display it in a way that will make it stand out from the crowd. Tackle some of Janice VanCleave's favorite experiments on topics ranging from astronomy, biology, and engineering to botany, geology, and oceanography. Then let your mind loose to explore whatever topic most interests you. Enjoy working on intriguing experiments while learning the secrets of science fair success! Praise for Janice VanCleave's books "Stunningly clear, direct, and informative projects."--School Library Journal "[They] not only teach children the basics of science, but also entertain along the way . . . great for kids."--Parentguide

Janice VanCleave's Guide to More of the Best Science Fair Projects

A second volume of a three-part series for all ages traces the period between Copernicus's theory about the sun's location at the center of the universe through the early days of atomic theory, offering introductory portraits of such contributors as Giordano Bruno, Galileo, and Isaac Newton.

The Story of Science

Includes twenty experiments and projects featuring animals, such as fossils, reflex actions, and animal hearing.

Janice VanCleave's Animals

In a series of fun and involving hands-on physics experiments, kids learn how airspeed affects flight, how unbalanced forces produce motion, how polarized light moves, how to separate light into colors, and how a mirror affects the reflected image. They will also determine and demonstrate why popcorn pops, how temperature affects the bounce of a rubber ball, the effect of solids on the speed of sound, and how the length of a flute affects the pitch of the sound it produces. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave again shows just how much fun science can be.

Even More of Janice VanCleave's Wild, Wacky, and Weird Physics Experiments

In a series of fun and involving hands-on astronomy experiments, kids learn how distance from the sun affects atmospheric temperature, why the Earth is called the "Blue Planet," why Jupiter's ring shines, and how to reproduce Mars' red soil and Jupiter's stormy red spot. They will also determine why radio wave receivers are curved, how radio waves are sent around the Earth via satellite, how satellites enter into orbit, and how rockets achieve escape velocity. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave again shows just how much fun science can be.

More of Janice VanCleave's Wild, Wacky, and Weird Astronomy Experiments

How do plants make their own food? Why do the different strings on a guitar have different sounds? What does the color of a star tell you about how hot the star is? What's the difference between gamma rays, X-rays, and microwaves? Now you can discover the answers to these and many other fascinating questions about energy for yourself with this fun-filled science resource. Packed with illustrations, Janice VanCleave's Energy for Every Kid presents entertaining, challenging experiments and activities to help you understand the different types of energy--including heat, sound, electricity, and light--and how

they bring about change in the world around you. You'll develop your problem-solving skills as you create a "leaping frog" that turns potential energy into kinetic energy, model sound waves with a Slinky?, use a balloon to demonstrate static electricity, make "sun" tea with solar energy, and much more! Each of the activities is broken down into its purpose, a list of materials, step-by-step instructions, expected results, and an easy-to-understand explanation. Plus, all projects have been pretested so you can perform them safely and inexpensively in the classroom, at a science fair, or at home! Also available in the Science for Every Kid series: ASTRONOMY BIOLOGY CHEMISTRY CONSTELLATIONS DINOSAURS EARTH SCIENCE ECOLOGY GEOGRAPHY GEOMETRY THE HUMAN BODY MATH OCEANS PHYSICS

Janice VanCleave's Energy for Every Kid

Why do newspapers turn yellow? How does bleach make colors disappear? Why can't you mix oil and water? Find out the answers to these and other mysteries of chemistry in this fascinating collection of ideas, projects, and activities that teach the basics of chemistry theory and practice. Turn steel wool into a glutinous green blob. Separate an egg from its shell without breaking the shell. Make copper pennies turn green. Have fun while you learn simple chemistry from a solution of colored water, and the behavior of gases with the help of a soda bottle. Through these and other activities, you'll explore the structure of matter, the workings of acids, gases, and solutions . . . and much more. You'll find most of the materials you need around the house or classroom. Every activity has been pretested and can be performed safely and cheaply in the classroom, at a science fair, or at home. Also available in this series from Janice VanCleave: * ASTRONOMY FOR EVERY KID * BIOLOGY FOR EVERY KID * DINOSAURS FOR EVERY KID * EARTH SCIENCE FOR EVERY KID * GEOGRAPHY FOR EVERY KID * GEOMETRY FOR EVERY KID * THE HUMAN BODY FOR EVERY KID * MATH FOR EVERY KID * PHYSICS FOR EVERY KID.

Janice VanCleave's Chemistry for Every Kid

In a series of fun and involving hands-on astronomy experiments, kids learn how distance from the sun affects atmospheric temperature, why the Earth is called the "Blue Planet," why Jupiter's ring shines, and how to reproduce Mars' red soil and Jupiter's stormy red spot. They will also determine why radio wave receivers are curved, how radio waves are sent around the Earth via satellite, how satellites enter into orbit, and how rockets achieve escape velocity. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave again shows just how much fun science can be.

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Why does a water drop magnify? How do crystals form? What does the inside of a seed look like? Janice VanCleave's Microscopes and Magnifying Lenses includes 20 simple and fun experiments that allow you to discover the answers to these and many other questions, plus dozens of suggestions on how to develop your own science fair projects. Grow penicillium mold in apple cider, compare your own and your friend's fingerprints, and investigate the lives of microscopic water fleas, all with either a microscope or simple magnifying lens. 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 Machines Janice VanCleave's Magnets Janice VanCleave's Molecules Janice VanCleave's Volcanoes Janice VanCleave's Weather

Janice VanCleave's Microscopes and Magnifying Lenses