Environmental Science High School Science Fair Experiments

Environmental Science

These step-by-step environmental experiements are ideal for use in science fair competitions and as classroom study tools. In-depth background information, experiment overviews, materials lists, thorough instructions, and helpful illustrations answer all questions. Young Adult.

Environmental Science

How many different organisms can you identify in a square meter of earth? What happens to plants if they don't have enough sunlight? Readers will learn the answers to these questions and more with the fun ecology and environmental experiments in this book. Young scientists will explore interactions of organisms and their environments. Many experiments include ideas students can use for science fairs.

Ace Your Ecology and Environmental Science Project

Going green is a hot topic...and a hot science fair project. Author and scientist Elizabeth Snoke Harris knows what impresses, and she provides plenty of winning ideas, along with step-by-step guidance to insure that the end result is a success. Show how to harness energy with windmills, make a biogas generator, and create alternative fuels. Demonstrate green power with recycled paper, solar building, and compact fluorescent light bulbs. Test the ozone, be a \"garbage detective," and discuss how to reverse global warming. The importance of what children learn will go even beyond the science fair: they'll have the knowledge to understand what's happening to Planet Earth...and the desire to do something eco-friendly every day.

Save the Earth Science Experiments

Suggests forty-nine projects in environmental science, suitable for the classroom or a science fair.

Environmental Science

Offers students and teachers the tools to explore various environmental issues; includes hands-on activities to learn more about environmental problems and what can be done to solve them.

Environmental Science Experiments

This selection of science fair projects will introduce young experimenters to the fundamental workings of their natural surroundings while raising their awareness of pollution, water contamination, & environmentally stressed wildlife. Projects include examinations of soil content, erosion, native plant & animal life, food chains animal migration, plant & animal wastes, population cycles, & aquatic life.

Environmental Science

Learn all about air, water, soil, pollution, and energy resources while comleting science experiments.

Environmental Science Fair Projects Using Water, Feathers, Sunlight, Balloons, and More

What is the best way to clean oil off feathers? How does soil erosion affect plant growth and food supply? Can the force in wind be used to generate electricity? The answers can be found by doing the fun and simple experiments in this book. Young scientists will explore the environment—the air, water, soil, pollution, and energy resources. For students interested in competing in science fairs, the book contains

lots of great suggestions and ideas for further experiments.

Environmental Science Fair Projects, Revised and Expanded Using the Scientific Method

What is the best way to clean oil off feathers? How does soil erosion affect plant growth and food supply? Can the force in wind be used to generate electricity? The answers can be found by doing the fun and simple experiments in this book. Young scientists will explore the environment, the air, water, soil, pollution, and energy resources. For students interested in competing in science fairs, this book contains great suggestions and ideas for further experiments.

Environmental Science Fair Projects, Using the Scientific Method

Offers 20 experiments about human and nonhuman forms of life, several of which can be used at the junior-high level. Includes chapters on the scientific method, zoology basics, and research tips. The experiments fall into four categories: people-related, biocides, animal lives, and animals and the environment.

Zoology

Describes sixty experiments in biology, weather, physics, botany, chemistry, and other sciences, using materials found in the home.

Science Fair Projects

Earth Science is the study of the Earth, its atmosphere, and all of its neighbours in space. Because of the spherical shape of the Earth, the various categories of Earth sciences can be subdivided into the various ‘spheres’ that make up the planet; the lithosphere, hydrosphere, atmosphere, and the biosphere, corresponding to rocks, water, air, and life. Perhaps because the study of the Earth is usually about things that are readily observable, most people find Earth science subjects relatively easy to grasp, practical and very enjoyable! The 58 projects contained in this science experiment e-book cover a wide range of Earth Science topics; from Astronomy & Geology to Gravity & Meteorology… there are even experiments on environmental sciences and the weather all designed for young students from grade 1 to 8! With this book, you are sure to find a project that interests you. When you are interested in a certain science topic, you will have more fun, and learn more, too! With the help of this book, you will construct many weird, wonderful and wacky experiments that you can have hours of fun with! Amongst many others, you will prove the rotation of the earth with Foucault’s pendulum, use binoculars to safely project a detailed image of the sun on a wall; make a sundial to tell the time and experiment with gravity by making a spring balance to compare the weight of various objects! Other fun experiments include: Learning about the phases of the moon with your own moon box, learning how to find the North Star in the night skies, calculating how fast the earth rotates around its axis, demonstrating how a total solar eclipse works, making an inclinometer or dipping compass, telling the time with your own water clock, making a rainbow with water and a mirror, using the sun’s infra-red rays to cook a potato, making dirty water pure and drinkable with evaporation & condensation, measuring the height of your school with the use of the sun, making a see-saw candle, making a water barometer to measure the air pressure, wind vane, evaporative refrigerator, anemometer, hygrometer and many, many more! When making these gadgets, you’ll discover that science is a part of every object in our daily lives, and who knows, maybe someday you will become a famous inventor too! Science can be real simple and is actually only about understanding the world you live in! Science certainly does not need to be complicated formulas, heavy text books and geeky guys in white lab coats with thick glasses. Science experiments are an awesome part of science that allows you to engage in cool and exciting hands on learning experiences that you are sure to enjoy and remember! By working through the science experiments in this book, you will learn about science in the best possible way – by doing things yourself. Designed with safety in mind, most of the items you will need for the experiments, such as jars, aluminium foil, scissors and sticky tape, you can find around your home. Others, such as magnets, lenses or a compass, you will be able to buy quite cheaply at a hobby shop or hardware store.

The Mad Scientist teaches: Earth science & Astronomy

\"Explains how to use the scientific method to conduct several science experiments about the environment. Includes ideas for science fair projects\"--Provided by publisher.

Science Fair Fun

A collection of experiments and projects in botany which explore germination, photosynthesis, and reproduction.

Environmental Science Fair Projects, Using the Scientific Method

Explains how to use the scientific method to conduct several science experiments about geology. Includes ideas for science fair projects.

Botany

Presents twenty environmental science experiments for middle school students.

Earth Science Fair Projects, Using the Scientific Method

Offers earth science experiments and science fair activities at the middle school and high school level.

Environmental Science Experiments

In a series of fun and involving hands-on earth science experiments, kids learn why the atmosphere is thinner at the Earth's poles, how a lunar eclipse can indicate Earth's shape, and how to create a Foucault's pendulum. They will also demonstrate continental drift, learn how to model meridians and parallels, and create a topographic map and a 3D model of a mountain. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave shows just how much fun science can be.

Earth Science Experiments on File

How is a cloud formed? What is thunder and lightning, really? Why is summer hot and winter cold? There are so many things to discover about the weather! This book will give young scientists a great start in meteorology. For students interested in competing in science fairs, the book contains lots of great suggestions and ideas for further experiments.

Many More of Janice VanCleave’s Wild, Wacky, and Weird Earth Science Experiments

With See For Yourself, budding scientists can wow their teachers and classmates (and maybe win a ribbon or two) by learning How to extract DNA from an onion How pigments from vegetables make dye How to make paper out of lint from a clothes dryer How to make a friend feel like he or she has a third hand What happens when you grow yeast in dandruff shampoo That tea and iron pills make excellent inks And much more! See for Yourself includes experiments in the areas of chemistry, earth science, physical science, the human body, and technology, but the experiments all take their inspiration from very familiar places. The materials needed to execute the experiments can all be inexpensively purchased at the supermarket, the toy store, the hardware store, the stationery store, and the drugstore. Some of the experiments are quick and easy, while others are more challenging. Most include additional suggestions so that curious young scientists can keep on investigating.

Weather Science Fair Projects, Revised and Expanded Using the Scientific Method

Hands-on experiments are a great way to engage young scientists. Instead of simply reading facts, they will experience the science that is happening in front of their eyes! The simple experiments in this book, illustrated in color, will unlock the secrets of planet Earth, including why Earth has layers, how continents move, and how we know Earth is round. By the time young readers are finished with the activities in this book, they will be ready to design some of their own to enter in their next science fair.

Science fair fun

With this comprehensive classroom supplement, students learn to focus on the scientific method and developing hypotheses. Topics covered include geology, oceanography, meteorology, astronomy, investigations into water salinity, radiation, planets, and more! A variety of experiment models are also included for further concept reinforcement. Mark Twain Media Publishing Company specializes in providing captivating, supplemental books and decorative resources to complement middle- and upper-grade classrooms. Designed by leading educators, the product line covers a range of subjects including mathematics, sciences, language arts, social studies, history, government, fine arts, and character. Mark Twain Media also provides innovative classroom solutions for bulletin boards and interactive whiteboards. Since 1977, Mark Twain Media has remained a reliable source for a wide variety of engaging classroom resources.

See for Yourself!

Even science fair enthusiasts may dread grappling with these two questions: How can you organize many students doing many different projects at the same time? and How can you help students while giving them the freedom of choice and independence of thought that characterize genuine inquiry? Answer the questions and face science fairs without fear with help from this book.

Science Fair Projects About Planet Earth

\"Presents several science projects and science fair ideas dealing with ecology and environmental studies\"--Provided by publisher.

Science Experiments, Grades 5 - 8

This selection of science fair projects will introduce young experimenters to the fundamental workings of their natural surroundings while raising their awareness of pollution, water contamination, and environmentally stressed wildlife.

Science Fair Warm-up

Includes instructions for over twenty projects and describes real world applications for these experiments

Ace Your Ecology and Environmental Science Project

Readers are offered step-by-step experiments in ecology that are sure to place high in any science fair. More important, however, the experiments provided show young people the richness of the ecology surrounding them every day, including the habitats of flora and the ecosystem of a pond. After performing these fun, hands-on activities and learning how these systems in nature work and depend on one other, readers will better appreciate the natural world around them.

Environmental Science

This book presents experiments that deal with the surrounding atmosphere, soil, water, plants, and climate. The experiments use simple and inexpensive materials that are available around the home or school. Safety warnings appear throughout the book when applicable to the particular experiments. Most experiments are great starts for science fair projects and fill the need for more challenging experiments for junior and senior high students.

Microbiology

Step-by-step instructions for doing science experiments dealing with soil and water are followed by an explanation of what happened during the experiments.

Step-by-Step Science Experiments in Ecology

Readers learn about barometers, humidity, snowflakes, and more with the great weather science experiments in this book. Authors Robert Gardner and Salvatore Tocci guide readers through their best weather science experiments using full-color illustrations. Many experiments include ideas for a student's science fair.

Science Projects about the Environment and Ecology

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Super Science Projects about Earth's Soil and Water

Educational resource for teachers, parents and kids!

Ace Your Weather Science Project

With Science in a Jar, kids and grown-ups need only gather a jar and a few other inexpensive and readily available household objects to begin investigating and confirming the science at work all around them. The 30 experiments included cover various scientific disciplines: life science, earth science, physical science, weather, and more. Some activities, like creating a cloud in a jar, are quick experiments that can be performed over and over again. Others, like the earthworm habitat, will be enjoyed over time. Science in a Jar also features several projects that help demonstrate how science and art intertwine—the sometimes overlooked “A” in STEAM! Each experiment is headed by a supplies list and difficulty level, as well as a short description of the project to be undertaken and the scientific principles with which the readers will interact. Directions and photographs guide readers through the scientific method in each experiment, while short features offer multileveled reading opportunities with explanations of terms, interesting quick facts, and brief descriptions of how scientists apply the specific concepts that readers just witnessed in the larger world today. In addition to providing readers with a better understanding of basic scientific concepts, Science in a Jar ignites curiosity, increases confidence to investigate scientific concepts, and fosters a love of science.

Resources in Education

Each volume in the Science Experiments On File set contains 60 entirely new experiments. Each of the five core areas of science--biology, chemistry, Earth science, environmental science, and physics--is represented, along with an additional area of science--such as space and astronomy or marine science--particular to the given volume. Specifically geared toward middle and high school classrooms, these volumes provide multidisciplinary coverage of science topics relevant to real life. Based on national science standards, each engaging experiment is presented in a user-friendly style intended to encourage student interest and understanding. This innovative science experiments collection provides a solid framework for easy, hands-on learning. It is the perfect solution for science teachers who seek labs or activities designed to accompany textbook instruction in the classroom or encourage outside study, but who lack a well-stocked science closet.

Science Experiments, Grades 5 - 12

Experiments! How wonderful would it be to create something science-y but without the dangers of doing the wrong. Experiments are hands-on learning strategies where kids can create and observe first-hand what science can do. This book contains experiments fitting for sixth graders. What is your favorite experiment from this collection?

Environmental Science on the Net

Science in a Jar