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DECKER KARLEE

Covid-19 Unmasked: The News, The Science, And Common Sense World Scientific
A fascinating insight into the many, many amazing jobs that scientists do Explore careers in science as you meet a multitude of scientists doing a huge variety of jobs in everything from astronomy to zoology. See what they do at work and marvel at their ground-breaking discoveries, then find out how YOU could become a scientist yourself.
Reproducibility and Replicability in Science Springer
How can we keep up with the deluge of information about COVID-19 and tell which parts are most important and trustworthy?We read: 'Scientists recommend', 'Experts warn', 'A new

model predicts'. How do scientific experts come up with their recommendations? What do their predictions really mean for us, for our friends, and our families?How can we make rational decisions? And how can we have sensible conversations about the pandemic when we disagree?These are the questions that this book is trying to address.It is written in the form of dialogues. Alice, a student of epidemiology, explains the science to three of her fellow students who have a lot of questions for her. The students have the same concerns that we all share to varying degrees: What the pandemic is doing to our health, our economy, and our cherished freedoms. In their conversations, they discover how the science relates to these questions.The book focuses on epidemiology, the science of how infections spread and how the spread can be mitigated. The science of how many infections can be prevented by certain kinds of actions. This is what we need to understand if we want to act wisely, as individuals and as a society.The author's goal is to help the reader think about the COVID-19 pandemic like an epidemiologist. About the various preventive measures, what they are trying to accomplish, what the obstacles are. About what is likely to be most effective in the long run at moderate economic and personal cost. About the likely consequences of personal decisions. About how to best protect oneself and others while allowing all of us to lead lives that are as close as

possible to normal.While some chapters present slightly more advanced material than others, no scientific background is needed to follow the conversations. The technical concepts are explained in small steps and the occasional calculations in the book require only high-school mathematics.Related Link(s)

Transparent and Reproducible Social Science Research National Academies Press

Recently, social science has had numerous episodes of influential research that was found invalid when placed under rigorous scrutiny. The growing sense that many published results are potentially erroneous has made those conducting social science research more determined to ensure the underlying research is sound. Transparent and Reproducible Social Science Research is the first book to summarize and synthesize new approaches to combat false positives and non-reproducible findings in social science research, document the underlying problems in research practices, and teach a new generation of students and scholars how to overcome them. Understanding that social science research has real consequences for individuals when used by professionals in public policy, health, law enforcement, and other fields, the book crystallizes new insights, practices, and methods that help ensure greater research transparency, openness, and reproducibility. Readers are guided through well-known problems and are encouraged to work through new

solutions and practices to improve the openness of their research. Created with both experienced and novice researchers in mind, Transparent and Reproducible Social Science Research serves as an indispensable resource for the production of high quality social science research.

Dog Science Unleashed Faber & Faber

The science projects in Super Simple Things to Do with Plants: Fun and Easy Science for Kids are easy and fun! Young readers can find the common household elements around the house and then complete the projects at home. No laboratory required! Each simple activity includes how-to photos, easy instructions, and short explanations. Readers will be thinking like scientists in no time! Besides adhering to science standards, this title also includes beginning math principles. For those familiar with the Checkerboard Cool series, this is the "Cool junior" series. Super simple says it all! Super Sandcastle is an imprint of ABDO Publishing Company.

Doing what Scientists Do Anchor

From the same editors that brought you Why Don’t Penguins’ Feet Freeze? and Does Anything Eat Wasps?, an exploration of the weird and wonderful margins of science—the latest volume in the brilliant New Scientist series. Science tells us grand things about the universe: how fast light travels, and why stones fall to earth. But scientific endeavor goes far beyond these obvious foundations. There are some fields we don`t often hear about because they are so

specialized, or turn out to be dead ends. Yet researchers have given hallucinogenic drugs to blind people (seriously), tried to weigh the soul as it departs the body, and planned to blast a new Panama Canal with an atomic weapon. Real scientific breakthroughs sometimes come out of the most surprising and unpromising work. Do Sparrows Like Bach? is about the margins of science—investigating everything from what it`s like to die to exploding pants and recycled urine. Who on earth would burn off their beard with a laser? Produce a fireproof umbrella that doubles as a parachute? Replace sniffer dogs with gerbils? Could a chemical component of flatulence be the next Viagra? Do sparrows (and even fish for that matter) prefer Bach to Led Zeppelin? The editors at New Scientist magazine have the answers to all these questions and more in this celebration of outrageous, outlandish, and brilliant discoveries on the fringes of scientific research. This extraordinary collection is an astonishing reminder that even at its most misguided, science is intensely creative, often hilarious, and can spark the imagination like nothing else.

Leaving Science National Academies Press

The past thirty years have witnessed a dramatic decline in the number of U.S. students pursuing advanced degrees in science and an equally dramatic increase in the number of professionals leaving scientific careers. Leaving Science provides the first significant examination of this worrisome new

trend. Economist Anne E. Preston examines a wide range of important questions: Why do professionals who have invested extensive time and money on a rigorous scientific education leave the field? Where do these scientists go and what do they do? What policies might aid in retaining and improving the quality of life for science personnel? Based on data from a large national survey of nearly 1,700 people who received university degrees in the natural sciences or engineering between 1965 and 1990 and a subsequent in-depth follow-up survey, Leaving Science provides a comprehensive portrait of the career trajectories of men and women who have earned science degrees. Alarmingly, by the end of the follow-up survey, only 51 percent of the original respondents were still working in science. During this time, federal funding for scientific research decreased dramatically relative to private funding. Consequently, the direction of scientific research has increasingly been dictated by market forces, and many scientists have left academic research for income and opportunity in business and industry. Preston identifies the main reasons for people leaving scientific careers as dissatisfaction with compensation and career advancement, difficulties balancing family and career responsibilities, and changing professional interests. Highlighting the difference between male and female exit patterns, Preston shows that most men left because they found scientific salaries low relative to perceived

alternatives in other fields, while most women left scientific careers in response to feelings of alienation due to lack of career guidance, difficulty relating to their work, and insufficient time for their family obligations. Leaving Science contains a unique blend of rigorous statistical analysis with voices of individual scientists, ensuring a rich and detailed understanding of an issue with profound consequences for the nation's future. A better understanding of why professionals leave science can help lead to changes in scientific education and occupations and make the scientific workplace more attractive and hospitable to career men and women.

Turning Science Into Things People Need Nicholas Brealey

There has never been a better time to for a handbook focused on women in science. In May 2016, the American Association for the Advancement of Science posted an article titled “We need to do more for women in science.” This book describes the importance of carving out spaces for women in science and includes the unique strengths of women scientists as well as challenges they tend to face. Studies of women leadership consistently illustrate that women demonstrate strengths in leadership across communities and have skills in bringing together groups towards a common goal. The role of women in context is an important one in science, but has not been the focus of previous texts about careers in science or medicine. This first of its kind book develops an understanding of research

careers occurring within a greater community of colleagues and academicians as well as the fact that women themselves lead within a group, a community, and a context. The book focuses on women who are pursuing research careers in academic medicine with specific emphasis on women in science and research as well as lessons learned from fellow female scientists. It also provides key strategies and skills centered on the social ecological model as well as a sense of community with other women scientists. The book is organized thematically using the social ecological model as a framework in which we all live and complete our work. Women Rock Science is a valuable resource that can be used in a variety of settings. It is beneficial for University classes as well as lab group meetings. It also places an emphasis on community and can be shared with one's community of mentors, mentees and colleagues.

Enhancing Science Impact Turtleback

Discusses six phenomena inexplicable to scientists, including the ability of certain people to walk on fire without being burned, the Australian Aborigines' possession of ESP, and the fact that divining rods really work.

What Do Scientists Do? What Do Scientists Do All Day?

This informative new guidebook helps students take a hands-on approach to a career in science with accurate, current industry information, job profiles, and tips for career exploration. Job profiles include: Astronomers Biologists Chemists Ecologists Forensic scientists Genetic

scientists Geologists Meteorologists Physicists Science technicians.

What Do Scientists Do? The Experiment

What is science for a child? How do children learn about science and how to do science? Drawing on a vast array of work from neuroscience to classroom observation, Taking Science to School provides a comprehensive picture of what we know about teaching and learning science from kindergarten through eighth grade. By looking at a broad range of questions, this book provides a basic foundation for guiding science teaching and supporting students in their learning. Taking Science to School answers such questions as: When do children begin to learn about science? Are there critical stages in a child's development of such scientific concepts as mass or animate objects? What role does nonschool learning play in children's knowledge of science? How can science education capitalize on children's natural curiosity? What are the best tasks for books, lectures, and hands-on learning? How can teachers be taught to teach science? The book also provides a detailed examination of how we know what we know about children's learning of scienceâ€"about the role of research and evidence. This book will be an essential resource for everyone involved in K-8 science educationâ€"teachers, principals, boards of education, teacher education providers and accreditors, education researchers, federal education agencies, and state and federal policy

makers. It will also be a useful guide for parents and others interested in how children learn.

Every Child a Scientist University of California Press

Have you ever wondered how scientists perform experiments, form hypotheses, and report their findings? A basic explanation of the scientific method and how you can use it to perform your own experiments is explored through diagrams, photos, and informative and engaging text in this newest addition to the How Do series. About the How Do series: These fully-illustrated nonfiction picture books are a great introduction to various STEM topics. Each title includes facts and figures, simple diagrams and hilarious illustrations and is written in a question-and-answer format to encourage readers to ask questions and guess the answers before exploring the science behind the correct answers.

A Framework for K-12 Science Education CSIRO PUBLISHING

Why aren't there any green mammals? Is eating boogers bad for you? Do dolphins and whales get thirsty? Why can't you tickle yourself? Where do astronauts put their dirty underwear?Children make excellent scientists - they're inquisitive, keen to learn and have open minds. And they especially love to learn about all the gross stuff and all the weird facts - this book is packed full of them. In Where do Astronauts Put Their Dirty Underwear?, kids will discover how to extract iron from breakfast cereal; that fish communicate by farting; how to turn

fried eggs green; why tigers have stripes, not spots; and much, much more. Behind each surprising question and answer or wacky experiment is a scientific explanation that will teach kids more about biology, chemistry and physics, and the world around them.

Science Matters ABDO

Introduces 21 renowned scientists by presenting activities that pertain to their actual research.

Oobleck The History Press

What do scientists do all day? Find out in this fully illustrated book that features more than 100 scientists at work. Little ones can explore fourteen scenes of scientists at work in different environments – discover dinosaur bones with the paleontologist on a dig, meet zoologists at the nature reserve, see a doctor doing experiments on the International Space Station, collect seeds with a plant biologist at the botanical gardens, build a robot with a robotics scientist in the testing centre – turn the page to find out what each scientist is doing and how

50 Science Things to Make and Do Simon and Schuster

Best-selling author Theodore Gray is back with all-new, spectacular experiments that demonstrate basic principles of chemistry and physics in thrilling, and memorable ways. For nearly a decade, Theodore Gray has been demonstrating basic principles of chemistry and physics through exciting, sometimes daredevil experiments that he executes, photographs, and writes about for his monthly Popular Science

column "Gray Matter." Theo Gray's Mad Science: Experiments You Can Do at Home, But Probably Shouldn't, published by Black Dog in 2009, collected Gray's Popular Science columns, along with hundreds of photographs, many of which were not published with the original columns. Now comes the second volume of mad-scientist experiments, which includes more dramatic, enlightening, and sometimes daring demonstrations in which Gray dips his hand into molten lead to demonstrate the Leidenfrost effect; crushes a tomato between two small magnets to demonstrate the power of neodymium-iron-boron magnets; and creates trinkets out of solid mercury to demonstrate how the state of matter depends very much on the temperature at which it exists. Other experiments include: A foil boat floating on an invisible sea! DIY X-ray photos! A bacon lance that cuts steel! Charging a smart phone with apples and pennies! And dozens more!

Stupendous Science Sourcebooks, Inc. A scientific twist on a beloved children's classic that's sure to delight both parent and child! Scientist, Scientist, Who do you see? I see Marie Curie in her laboratory! The adored children's classic Brown Bear, Brown Bear gets a nerdy makeover in this science picture book by the #1 bestselling science author for kids. Chris Ferrie! Young readers will delight at taking a familiar text and poking fun at it all while learning about scientists and how they changed the world. Back matter includes brief biographical information of the featured

scientists. This sweet baby scientist book parody is the perfect inspiration for scientists of all ages! One of the best books about scientists for kids of the year! Full of scientific rhyming fun, Scientist, Scientist, Who Do You See? features appearances by some of the world's greatest scientists! From Albert Einstein to Marie Curie and Ahmed Zewail, from Charles Darwin to Chien-Shiung Wu and Grace Hopper... and more!

Ask a Science Teacher V&S Publishers

Sustainability challenges blur the boundaries between academic disciplines, between research, policy and practice, and between states, markets and society. What do exemplary scientists and organisations do to bridge the gaps between these groups and help their research to make the greatest impact? How do they do it? And how can their best practices be adapted for a diverse range of specific sustainability challenges? Enhancing Science Impact: Bridging Research, Policy and Practice for Sustainability addresses these questions in an accessible and engaging way. It provides principles explaining how research programs can work more effectively across the boundaries between science, society and decision-making by building social and institutional networks. The book suggests useful ways of thinking about a diverse range of problems and then offers five approaches to help embed science in sustainability governance. It will be an indispensable guide for researcher leaders, science program

managers and science policy advisers interested in ensuring that applied research can meaningfully contribute to sustainability outcomes.

Mad Science 2 Wide Eyed Editions

What Do Scientists Do All Day?Wide Eyed Editions

Super Simple Things to Do with Plants Flowerpot Press

One of the pathways by which the scientific community confirms the validity of a new scientific discovery is by repeating the research that produced it. When a scientific effort fails to independently confirm the computations or results of a previous study, some fear that it may be a symptom of a lack of rigor in science, while others argue that such an observed inconsistency can be an important precursor to new discovery. Concerns about reproducibility and replicability have been expressed in both scientific and popular media. As these concerns came to light, Congress requested that the National Academies of Sciences, Engineering, and Medicine conduct a study to assess the extent of issues related to reproducibility and replicability and to offer recommendations for improving rigor and transparency in scientific research. Reproducibility and Replicability in Science defines reproducibility and replicability and examines the factors that may lead to non-reproducibility and non-replicability in research. Unlike the typical expectation of reproducibility between two computations, expectations about replicability are more nuanced,

and in some cases a lack of replicability can aid the process of scientific discovery. This report provides recommendations to researchers, academic institutions, journals, and funders on steps they can take to improve reproducibility and replicability in science.

How Do Scientists Ask Questions?: A Book about the Scientific Method

National Academies Press

Laboratory experiences as a part of most U.S. high school science curricula have been taken for granted for decades, but they have rarely been carefully examined. What do they contribute to science learning? What can they contribute to science learning? What is the current status of labs in our nationÃ¯Â¿Â½s high schools as a context for learning science? This book looks at a range of questions about how laboratory experiences fit into U.S. high schools: What is effective laboratory teaching? What does research tell us about learning in high school science labs? How should student learning in laboratory experiences be assessed? Do all student have access to laboratory experiences? What changes need to be made to improve laboratory experiences for high school students? How can school organization contribute to effective laboratory teaching? With increased attention to the U.S. education system and student outcomes, no part of the high school curriculum should escape scrutiny. This timely book investigates factors that influence a high school laboratory experience, looking closely at

what currently takes place and what the goals of those experiences are and should be. Science educators, school administrators, policy makers, and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum-and how that can be accomplished.

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