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Sean Connolly is the author of the Totally Irresponsible Science series and dozens of other ...

The Book of Totally Irresponsible Science: 64 Daring ...

The Book of Totally Irresponsible Science presents clear instructions for 64 "daring" experiments. The information is presented clearly and directly. Included in each experiment is a list of items needed (mostly items you can find around the house), a warning listed as "Take Care!", and a scientific explanation called "The Scientific Excuse".

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From Marshmallows on Steroids to Home-Made Lightning, the Sandwich Bag Bomb to Giant Air Cannon, The Book of Totally Irresponsible Science awakens kids' curiosity while demonstrating scientific principles like osmosis, air pressure, and Newton's Third Law of Motion. Kids will love performing these experiments, which use common household ingredients and equipment, in front of an audience or for themselves (though many require adult supervision).

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The Book of Totally Irresponsible Science by Sean Connolly

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The Book fo Totally Irresponsible Science, although not quite irresponsible, will help you fill vacation days, idle afternoons or rainy weekends into fun-filled fests.

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Sean Connolly is the author of the Totally Irresponsible Science series and dozens of other books for both children and adults. A father of three, he is in an ideal position to explain the nuts and bolts of these experiments. He lives in England.

Sean Connolly - Workman Publishing

Introducing 64 valuable science experiments that snap, crackle, pop, ooze, crash, boom, and stink! From Marshmallows on Steroids to Home-Made Lightning, the Sandwich Bag Bomb to Giant Air Cannon, The Book of Totally Irresponsible Science awakens kids' curiosity while demonstrating scientific principles like osmosis, air pressure, and Newton's Third Law of Motion.

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Now, the author of The Book of Totally Irresponsible Science, takes it one step further: He leads kids through the history of science, and then creates amazing yet simple experiments that demonstrate key scientific principles. Tame fire just like a Neanderthal with the Fahrenheit 451 experiment.

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What could be more fun for kids than to have the kind of rip-roaring good time that harkens back to pre-video game, pre-computer days? Introducing 64 valuable science experiments that snap, crackle, pop, ooze, crash, boom, and stink! From Marshmallows on Steroids to Home-Made Lightning, the Sandwich Bag Bomb to Giant Air Cannon, *The Book of Totally Irresponsible Science* awakens kids' curiosity while demonstrating scientific principles like osmosis, air pressure, and Newton's Third Law of Motion. Kids will love performing these experiments, which use common household ingredients and equipment, in front of an audience or for themselves (though many require adult supervision). Entries are categorized into seven chapters according to scientific theme and are written in a simple-to-follow recipe format. Each includes a detailed explanation of the scientific principle involved and a "Take Care!" section with special tips. The book's design and illustrations recall the pulp fiction look of science magazines from the days when space travel was still considered sci-fi, while the author's voice is wry and a bit conspiratorial. He assumes his readers are clever and never coddles them. Drop Mentos into a bottle of diet soda and stand back as a geyser erupts! Launch a rocket made from a film canister! Encase your little brother in a giant soap bubble! For young scientists—and the young at heart—this book is a blast. Literally.

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Math rocks! At least it does in the gifted hands of Sean Connolly, who blends middle school math with fantasy to create an exciting adventure in problem-solving. These word problems are perilous, do-or-die scenarios of blood-sucking vampires (How many months would it take a single vampire to completely take over a town of 500,000 people?), or a rowboat of 5 shipwrecked sailors with a single barrel of freshwater (How much can they drink, and for how long, before they go mad from thirst???). Each problem requires readers to dig deep into the tools they're learning in school to figure out how to survive. Kids will love solving these problems. Sean Connolly knows how to make tough subjects exciting and he brings that same intuitive understanding of what inspires and challenges kids' curiosity to the 24 problems in *The Book of Perfectly Perilous Math*. These problems are as fun to read as they are challenging to solve. They test readers on fractions, algebra, geometry, probability, expressions and equations, and more. Use geometry to fill in for the ship's navigator and make it safely to the New World. Escape an evil Duke's executioner by picking the right door—probability will save your neck.

Stand back--genius at work! The perfect gift for every curious kid interested in science, here is a kit to perform 18 experiments that snap, crackle, pop, ooze, crash, boom, and stink. Included is a 72-page book with step-by-step instructions for the 18 experiments, including notes on how long each experiment takes, the necessary ingredients, warnings when applicable, and the "scientific excuse" to do

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the experiment. Sure, it's a blast to send up a Soda Bottle Rocket, but it's also worth doing because it illustrates Newton's Third Law of Motion. And that messy and seemingly risky combination of ooze and electricity in the Static Electricity Slime? It demonstrates a fourth form of matter beyond solid, liquid, and gas--a colloid. Packaged in the kit are four helpful instruments for young scientists: a lateral split-orb measuring spoon, a vacuumatic test tube, a matter-retaining measuring cup, and photon-refracting goggles. So go ahead: Encase a younger sibling in a giant soap bubble. Drop Mentos into a bottle of diet soda, and stand back as a geyser erupts. Shoot a bolt of lightning from your fingertip. Any curious kid would be irresponsible not to try these experiments.

From Sean Connolly, the master of messy and dangerous (and therefore extra-fun) science, a collection of more than 20 hands-on experiments that are like an interactive journey through the periodic table of elements. In this introduction to chemistry for STEM-curious kids ages 9 and up, each chapter of *The Book of Ingeniously Daring Chemistry* focuses on a single element—its properties, how it was discovered, and even its potential danger level. Easy-to-follow experiments help readers put their newfound knowledge into action. All that's needed is a sense of adventure and some items from around the house. Make your own fossil with silicon. Use a pinhead and measure 166 feet of string for a mind-boggling insight into how a hydrogen atom is built. Discover oxygen and oxygenation by slicing an apple and seeing what happens an hour later. Harness the power of zinc with a

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potato clock. And enjoy a special hands-off feature about the “Dirty Dozen”—those nasty elements, from arsenic to plutonium, that can wreak havoc wherever they appear (there are no experiments using these chemicals). Matter really matters, and now you’ll really understand why.

It’s hands-on science with a capital “E”—for engineering. Beginning with the toppling of the Colossus of Rhodes, one of the seven wonders of the ancient world, to the destructive, laserlike sunbeams bouncing off London’s infamous “Fryscraper” in 2013, here is an illustrated tour of the greatest engineering disasters in history, from the bestselling author of *The Book of Totally Irresponsible Science*. Each engineering disaster includes a simple, exciting experiment or two using everyday household items to explain the underlying science and put learning into action. Understand the Titanic’s demise by sinking an ice-cube-tray ocean liner in the bathtub. Stomp on a tube of toothpaste to demonstrate what happens to non-Newtonian fluids under pressure—and how a ruptured tank sent a tsunami of molasses through the streets of Boston in 1919. From why the Leaning Tower of Pisa leans to the fatal design flaw in the Sherman tank, here’s a book of science at its most riveting.

Why does a knuckleball flutter? Why do belly flops hurt so much? Why would a quarterback prefer a deflated football? Here are 54 all-star experiments that demonstrate the scientific principles powering a wide variety of sports and

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activities—and offer insights that can help you improve your own athletic skills. How does a black belt karate chop her way through a stack of bricks? Use Popsicle sticks to understand why it's possible and learn the role played by Newton's second law of motion. Does LeBron James really float through the air on the way to a dunk? Use a tennis ball, a paperback book, and the help of a friend to understand the science of momentum and the real meaning of hang time. Using common household objects, each project includes step-by-step instructions, tips, and a detailed explanation of how and why the experiment worked. It's a win-win. The thrill of victory, the agony of defeat—it's all in the science.

It's never been more important to engage a child's scientific curiosity, and Sean Connolly knows just how to do it—with lively, hands-on, seemingly "dangerous" experiments that pop, ooze, crash, and teach! Now, the author of *The Book of Totally Irresponsible Science*, takes it one step further: He leads kids through the history of science, and then creates amazing yet simple experiments that demonstrate key scientific principles. Tame fire just like a Neanderthal with the Fahrenheit 451 experiment. Round up all your friends and track the spread of "disease" using body glitter with an experiment inspired by Edward Jenner, the vaccination pioneer who's credited with saving more lives than any other person in history. Rediscover the wheel and axle with the ancient Sumerians, and perform an astounding experiment demonstrating the theory of angular momentum. Build a simple telescope—just like Galileo's—and find the four moons he discovered

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orbiting Jupiter (an act that helped land him in prison). Take a less potentially catastrophic approach to electricity than Ben Franklin did with the Lightning Mouth experiment. Re-create the Hadron Collider in a microwave with marshmallows, calculator, and a ruler—it won't jeopardize Earth with a simulated Big Bang, but will demonstrate the speed of light. And it's tasty! By letting kids stand on the shoulders of Aristotle, Newton, Einstein, the Wright brothers, Marie Curie, Darwin, Watson and Crick, and more, *The Book of Potentially Catastrophic Science* is an uncommonly engaging guide to science, and the great stories of the men and women behind the science.

Explore the exciting but potentially disastrous world of digital technology, robotics, computer science, and electronics with fun sci-fi flair and hands-on projects. Sean Connolly's award-winning science series now includes the T in STEM (Science, Technology, Engineering, and Math)!

It's never been more important to engage a child's scientific curiosity, and Sean Connolly knows just how to do it—with lively, hands-on, seemingly "dangerous" experiments that pop, ooze, crash, and teach! Now, the author of *The Book of Totally Irresponsible Science*, takes it one step further: He leads kids through the history of science, and then creates amazing yet simple experiments that demonstrate key scientific principles. Tame fire just like a Neanderthal with the Fahrenheit 451 experiment. Round up all your friends and track the spread of

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"disease" using body glitter with an experiment inspired by Edward Jenner, the vaccination pioneer who's credited with saving more lives than any other person in history. Rediscover the wheel and axle with the ancient Sumerians, and perform an astounding experiment demonstrating the theory of angular momentum. Build a simple telescope—just like Galileo's—and find the four moons he discovered orbiting Jupiter (an act that helped land him in prison). Take a less potentially catastrophic approach to electricity than Ben Franklin did with the Lightning Mouth experiment. Re-create the Hadron Collider in a microwave with marshmallows, calculator, and a ruler—it won't jeopardize Earth with a simulated Big Bang, but will demonstrate the speed of light. And it's tasty! By letting kids stand on the shoulders of Aristotle, Newton, Einstein, the Wright brothers, Marie Curie, Darwin, Watson and Crick, and more, *The Book of Potentially Catastrophic Science* is an uncommonly engaging guide to science, and the great stories of the men and women behind the science.

Provides experiments associated with a bag of potato chips: bags, chips, lids, spuds, and tubes.

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