

GONZO GIZMOS

PROJECTS & DEVICES TO CHANNEL YOUR INNER GEEK



BUILD FILM CAN **CANNONS,**
LEVITATING MAGNETS,
GAUSS RIFLES,
LASER RADIOS,
& MORE



SIMON FIELD



Gonzo Gizmos Projects And Devices To Channel Your Inner Geek

Simon Quellen Field



Gonzo Gizmos Projects And Devices To Channel Your Inner Geek:

Return of Gonzo Gizmos Simon Quellen Field,2006 Organized by scientific topic most of the devices in this collection of 20 projects can be built using common household products or components Each experiment contains illustrated step by step instructions with photographs and diagrams that make construction easy Gonzo Gizmos Simon Quellen Field,2002 Gonzo Gizmos includes step by step instructions to building more than 30 devices and explanations of the physics and chemistry involved *Mondo Magnets* Fred Jeffers,2007-03-01 Surprising and seemingly impossible effects result from the 40 experiments included in this fascinating science resource all based on real magnetic physics Each experiment such as using a common refrigerator magnet to create a three dimensional image or floating a magnet and carbon sheet in midair is outlined with step by step instructions and diagrams that illustrate the key concepts of magnetism Even the most experienced science teacher or at home tinkerer will find dozens of new tricks in this amazing collection **Haywired** Mike Rigsby,2009 Presents step by step instructions for building a variety of electronic devices including a talking alarm a moving eyeball painting and a flashlight without batteries **Art of the Catapult** William Gurstelle,2004-07-01 Whether playing at defending their own castle or simply chucking pumpkins over a fence wannabe marauders and tinkerers will become fast acquainted with Ludgar the War Wolf Ill Neighbor Cabulus and the Wild Donkey ancient artillery devices known commonly as catapults Building these simple yet sophisticated machines introduces fundamentals of math and physics using levers force torsion tension and traction Instructions and diagrams illustrate how to build seven authentic working model catapults including an early Greek ballista a Roman onager and the apex of catapult technology the English trebuchet Additional projects include learning how to lash and make rope and how to construct and use a hand sling and a staff sling The colorful history of siege warfare is explored through the stories of Alexander the Great and his battle of Tyre Saladin Richard the Lionheart and the Third Crusade pirate turned soldier John Crabbe and his ship mounted catapults and Edward I of England and his battle against the Scots at Stirling Castle **Mini Weapons of Mass Destruction 3** John Austin,2013-05-01 Utilizing easy to find and inexpensive materials this handy resource teaches desktop warriors how to build a multitude of medieval siege weapons for the modern era Novice combatants will learn to build 35 defense weapons including a marshmallow catapult a chopstick bow a bottle cap crossbow and a clothespin ballista In addition to beefing up their Dark Age arsenal would be warriors are provided with a number of targets on which to practice their shooting skills Clear diagrams instructions and safety tips for each project are included making construction of each of these weapons simple safe and fun **Mini Weapons of Mass Destruction: Build and Master Ninja Weapons** John Austin,2014-09-01 To become a ninja master one needs discipline a silent footstep and an impressive personal arsenal Author and toy designer John Austin shows even little grasshoppers how to turn disposable pens rubber bands old CDs toothpicks erasers mint tins and binder clips into miniaturized stealth weaponry Clothespins craft sticks playing cards pushpins and recycled milk jug caps make a

cotton swab launching Hwacha Rocket Cart Rolled magazines book rings and duct tape can be fashioned into a set of working but harmless nunchucks And a carefully folded sheet of paper can become an origami boomerang This handy resource provides detailed step by step instructions with diagrams to show stealth warriors how to build 37 different ninja weapons for the modern era All of the projects in *MiniWeapons of Mass Destruction 4* are built from common household and office items plastic utensils markers clothespins paper clips wire hangers and discarded packaging all clearly detailed on materials lists Builders are offered a variety of samurai stars blowguns throwing darts siege weapons and ninja tools to choose from Once they've assembled their armory the author provides novices several targets to practice their shooting skills Nested paper cups become a dragon chopsticks and a paper plate a tripod bulls eye Armed trained and shrouded in black they are now prepared for missions of reconnaissance sabotage and other grim errands John Austin is a professional toy designer and author of *MiniWeapons of Mass Destruction* series as well as *So Now You're a Zombie* He lives in Cincinnati Ohio *Mini Weapons of Mass Destruction: Build a Secret Agent Arsenal* John Austin, 2011-10-01 If you're a budding spy what better way to conceal your clandestine activities than to miniaturize your secret agent arsenal *MiniWeapons of Mass Destruction 2* provides fully illustrated step by step instructions for building 30 different spy weapons and surveillance tools including Paper Dart Watch Pen Blowgun Rubber Band Derringer Mint Tin Catapult Pushpin Dart Cotton Swab 38 Special Toothpaste Periscope Paper Throwing Star Bionic Ear And more Once you've assembled your weaponry the author provides a number of ideas on how to hide your stash inside a deck of cards a false bottom soda bottle or a cereal box briefcase and targets for practicing your spycraft including a flip down firing range a fake security camera and sharks with laser beams

Tinkering Curt Gabrielson, 2013-09-17 After school and out of school programs as well as home schooling have been growing steadily for nearly a decade but instructors are still searching for high interest content that ties into science standards without the rigidity of current classroom canon The author draws on more than 20 years of experience doing hands on science to facilitate tinkering learning science while fooling around with real things In this book you'll learn Tinkering techniques in key science areas How to let kids learn science with hands on tinkering Engaging techniques for science learning at home in school or at a makerspace or library Step by step instructions for activities that don't end with a single project but that provide many paths for tinkering forward *Mini Weapons of Mass Destruction: Build Implements of Spitball Warfare* John Austin, 2009-10-01 STRONGPopularMechanics.com selection for one of The Best DIY and Home Improvement Books of 2009 We've come a long way from the Peashooter Era with the advent of modern household products and office supplies binder clips clothespins rubber bands ballpoint pens toothpicks paper clips plastic utensils and of course matches and barbeque lighters troublemakers of all stripes have the components needed to build an impressive if somewhat miniaturized arsenal Toy designer John Austin provides detailed step by step instructions for each project including materials and ammo lists clear diagrams and construction tips for mayhem loving MacGyvers The 35 devices include catapults

slingshots minibombs darts and combustion shooters Build a tiny trebuchet from paper clips and a D cell battery Wrap a penny in a string of paper caps to create a surprisingly impressive bomb Several of the projects even include variations where combatants mount laser pointer sights to their shooters to increase their accuracy Finally once you've built your armory the author provides plans for a Top Secret Concealing Book to hide your stash as well as targets for shooting practice Never let your personal space go undefended again

Backyard Ballistics William Gurstelle, 2012-09-01 This bestselling DIY handbook now features new and expanded projects enabling ordinary folks to construct 16 awesome ballistic devices in their garage or basement workshops using inexpensive household or hardware store materials and this step by step guide Clear instructions diagrams and photographs show how to build projects ranging from the simple match powered rocket to the more complex tabletop catapult and the offbeat Cincinnati fire kite The classic potato cannon has a new evil twin the piezo electric spud gun and the electromagnetic pipe gun has joined the company of such favorites as the tennis ball mortar With a strong emphasis on safety the book also gives tips on troubleshooting explains the physics behind the projects and profiles scientists and extraordinary experimenters such as Alfred Nobel Robert Goddard and Isaac Newton This book will be indispensable for the legions of backyard toy rocket launchers and fireworks fanatics who wish every day was the fourth of July

Amazing Rubber Band Cars Mike Rigsby, 2007-11-01 Combining fun and interactive activities this guide will have kids captivated for hours constructing fantastic racing cars with the basics of only rubber bands cardboard and glue These simple instructions with templates allow budding engineers to gain hands on experience as they learn not only how to build a basic racer but how to make modifications such as aluminum foil axle bearings steering mechanisms hinges cam shafts and wheels made out of old CDs This helpful resource has step by step instructions for making a basic rubber band model a railroad push car and a high speed racer Other unique projects include Oscar the Laughing Clown which has a jaw mechanism that opens and closes when it moves and Spot the Dog which has a moving tail Children can even learn how to build a rubber band car big enough for a human Exploring wheels bearings and friction kids will learn not only how to make speedy racers but also the science that makes the process work

Kinetic Contraptions Curt Gabrielson, 2010 Hobby motors every workbench warrior has a few that have been pulled out of broken toys or rescued from old electronics kits They're cheap available and with Kinetic Contraptions essential to build some ingenious moving creations The two dozen contraptions found in this handy resource are assembled primarily from low cost or recycled materials batteries and a single motor You'll learn how to build vehicles that move across the land over the sea and through the air Construct a hovercraft out of a Styrofoam plate two corks and binder clips Build a double paddle wheeler out of paint stirrers plastic bottles and disposable knives Kinetic Contraptions even has bizarre devices such as a waterless snow globe a tornado in a bottle and a mechanical bubble maker no blowing required Each project is clearly explained through materials and tools lists step by step instructions with photographs and scientific background on the concepts being explored Budding engineers will get

experience working with tools testing simple circuits modifying and improving their designs and building unique contraptions of their own with the skills they ve developed **The Publishers Weekly** ,2006 **Unscrewed** Ed Sobey,2011-06 Perfect for the do it yourselfer this handy guide to household electronics gives the weekend workbench enthusiast a multitude of ideas on how to salvage valuable parts from old electronics and turn them into useful gadgets once more This handbook is loaded with information and helpful tips for disassembling old and broken electronics Each of the more than 50 deconstruction projects includes a treasures cache of the components to be found a required tools list and step by step instructions with photos on how to safely extract the working components Projects include building a desk lamp from an old flatbed scanner a barbeque supercharger from a Dustbuster impeller and a robot from the gears rollers and stepper motor found in an ink jet printer Now old VHS players and fax machines will find new life with these fun ideas **Library Journal** Melvil Dewey,Richard Rogers Bowker,L. Pylodet,Charles Ammi Cutter,Bertine Emma Weston,Karl Brown,Helen E. Wessells,2006 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately **American Scientist** ,1942
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