

The Lego Power Functions Idea Volume 2 Cars And Contraptions

[The LEGO Power Functions Idea Book, Volume 2](#) [The LEGO Power Functions Idea Book, Volume 1](#) [The LEGO BOOST Idea Book](#) [Practical LEGO Technics](#) [The LEGO MINDSTORMS Robot Inventor Idea Book](#) [The LEGO MINDSTORMS EV3 Idea Book](#) [The Unofficial LEGO Technic Builder's Guide, 2nd Edition](#) [LEGO Technic Non-Electric Models: Simple Machines](#) [The Unofficial LEGO Technic Builder's Guide](#) [The LEGO® Ideas Book](#) [LEGO Technic Non-Electric Models: Clever Contraptions](#) [The Racecar Book](#) [LEGO Technic Non-Electric Models: Simple Machines](#) [Kingfishers to Bullet Trains](#) [Electronics for Kids](#) [The American Revolution](#) [Explore Simple Machines!](#) [EXPLORE FLIGHT!](#) [The LEGO Power Functions Idea Book, Volume 2](#) [The LEGO Power Functions Idea Book, Volume 1](#) [Unconventional Vehicles](#) [Time, Talent, Energy](#) [The LEGO Neighborhood Book 2](#) [The LEGO Trains Book](#) [Capitalist Realism](#) [Genius LEGO Inventions with Bricks You Already Have](#) [A Framework for K-12 Science Education](#) [Precalculus](#) [Maker Projects for Kids Who Love Fashion](#) [Maker Projects for Kids Who Love Games](#) [Molecular Biology of the Cell](#) [Advanced R](#) [Anarchy, State, and Utopia](#) [The Art of LEGO Design](#) [The LEGO BOOST Activity Book](#) [A Shot in the Arm!](#) [The Idea of Public Law](#) [The Functions of the Police in Modern Society](#) [College Algebra](#) [Six Thinking Hats](#)

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[The Art of LEGO Design](#) Dec 31 2019 The most impressive LEGO models often take careful planning (and lots of pieces), but with some inspiration, a little imagination, and a number of tried-and-true techniques, you too can turn bricks into a masterpiece. In *The Art of LEGO® Design*, author Jordan Schwartz explores LEGO as an artistic medium. This wide-ranging collection of creative techniques will help you craft your own amazing models as you learn to see the world through the eyes of some of the greatest LEGO builders. Each concept is presented with a collection of impressive models to spark your imagination—like fantastic dragons, futuristic spaceships, expressive characters, and elaborate dioramas. You'll discover some of the inventive techniques that LEGO artists use to: –Create lifelike creatures from unusual elements like inside-out tires and minifigure capes –Design sleek cars without showing a single stud –Add ambience to dioramas with light bricks or LEDs –Craft eye-catching textures to create cobblestone roads and brick walls –Build sturdy, detailed, posable mechs and other figures –Add depth with forced perspective and interesting silhouettes Interviews with the talented builders behind many of the book's models reveal their thoughts on the design process and what inspires them most. Even if you've been building with LEGO since you could crawl, you'll find new inspiration in *The Art of LEGO® Design*.

[Maker Projects for Kids Who Love Games](#) May 04 2020 Game design requires many skills including imagination, problem solving, communication, and teamwork. These characteristics make it a natural fit for the Maker movement. From board games to video games, this exciting title introduces readers to the essential basics of game design including game components and systems, prototype design, play testing, and the steps in the iterative design process. "Makers and Shakers" sidebars introduce readers to some of the world's greatest game designers and innovators. The title also includes engaging, step-by-step Maker projects to put their game design skills to work

[The LEGO Power Functions Idea Book, Volume 1](#) Mar 14 2021 This first volume of *The LEGO Power Functions Idea Book, Machines and Mechanisms*, showcases small projects to build with LEGO Technic gears, motors, gadgets, and other moving elements. You'll find hundreds of clever, buildable mechanisms, each one demonstrating a key building technique or mechanical principle. You'll learn to build sliding doors, grasping claws, rack-and-pinion mechanisms, and ball-shooting devices of every sort! Each model includes a list of required parts and colorful photographs that guide you through the build without the need for step-by-step instructions. As you build, you'll explore the principles of simple machines, gear systems, power translation, and more.

[A Framework for K-12 Science Education](#) Aug 07 2020 Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

[College Algebra](#) Jul 26 2019 College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The modular approach and richness of content ensure that the book meets the needs of a variety of courses. College Algebra offers a wealth of examples with detailed, conceptual explanations, building a strong foundation in the material before asking students to apply what they've learned. Coverage and Scope In determining the concepts, skills, and topics to cover, we engaged dozens of highly experienced instructors with a range of student audiences. The resulting scope and sequence proceeds logically while allowing for a significant amount of flexibility in instruction. Chapters 1 and 2 provide both a review and foundation for study of Functions that begins in Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other institutions have told us that they have a cohort that need the prerequisite skills built into the course. Chapter 1: Prerequisites Chapter 2: Equations and Inequalities Chapters 3-6: The Algebraic Functions Chapter 3: Functions Chapter 4: Linear Functions Chapter 5: Polynomial and Rational Functions Chapter 6: Exponential and Logarithm Functions Chapters 7-9: Further Study in College Algebra Chapter 7: Systems of Equations and Inequalities Chapter 8: Analytic Geometry Chapter 9: Sequences, Probability and Counting Theory

[Advanced R](#) Mar 02 2020 An Essential Reference for Intermediate and Advanced R Programmers *Advanced R* presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code This book not only helps current R users become R programmers but also shows existing programmers what's special about R. Intermediate R programmers can dive deeper into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does.

[The LEGO BOOST Activity Book](#) Nov 29 2019 At last, fans of the LEGO BOOST robot building kit have the learning resource they've been missing! Enter *The LEGO BOOST Activity Book*: a full-color guide that will help readers learn how to build and code LEGO creations that move, explore their environment, grab and lift objects, and more. The LEGO BOOST kit lets younger builders create fun, multifunctional robots by combining bricks with code, but it doesn't come with a manual. With the help of this complete guide to the LEGO BOOST set, you'll be on your way to building and programming BOOST robots in no time. You'll begin your exploration by building a basic rover robot called MARIO to help you learn the fundamentals of the BOOST programming environment. Next, you'll add features to your rover to control its movement and make it repeat actions and react to colors and sounds. Once you've learned some programming basics, you'll learn how to program your robot to do things like follow lines on the ground, scan its environment to decide where to go, and even play darts. As final projects, you'll create two complete robots: BrickPecker to help you organize your bricks and CYBOT, a robot that talks, shoots objects, and executes voice commands. As you advance through the book, optional lessons aim to deepen your understanding of basic robotics concepts. Brain BOOSter sections let you dig into the math and engineering behind your builds while a host of experiments seek to test your skills and encourage you to do more with your robots. With countless illustrations, extensive explanations, and a wealth of coding examples to guide you, *The LEGO BOOST Activity Book* is sure to take you from beginning builder to robotics whiz and give your robot-building brain that needed boost!

[The LEGO Power Functions Idea Book, Volume 1](#) Oct 01 2022 This first volume of *The LEGO Power Functions Idea Book, Machines and Mechanisms*, showcases small projects to build with LEGO Technic gears, motors, gadgets, and other moving elements. You'll find hundreds of clever, buildable mechanisms, each one demonstrating a key building technique or mechanical principle. You'll learn to build sliding doors, grasping claws, rack-and-pinion mechanisms, and ball-shooting devices of every sort! Each model includes a list of required parts and colorful photographs that guide you through the build without the need for step-by-step instructions. As you build, you'll explore the principles of simple machines, gear systems, power translation, and more.

[Maker Projects for Kids Who Love Fashion](#) Jun 04 2020 In this highly visual title, readers will find out where fashion trends originate, learn about cutting-edge technologies such as digital prints and smart clothing, and discover how to use up-cycling to create original fashion statements. They will also learn about choosing patterns and textiles, and be instructed on how to do design techniques such as basic sewing, beading, and stenciling. The book includes several imaginative Maker projects to inspire readers to create works of fashion art.

[Capitalist Realism](#) Oct 09 2020 After 1989, capitalism has successfully presented itself as the only realistic political-economic system - a situation that the bank crisis of 2008, far from ending, actually compounded. The book analyses the development and principal features of this capitalist realism as a lived ideological framework. Using examples from politics, films, fiction, work and education, it argues that capitalist realism colours all areas of contemporary experience. But it will also show that, because of a number of inconsistencies and glitches internal to the capitalist reality program capitalism in fact is anything but realistic.

[Practical LEGO Technics](#) Jul 30 2022 You already know you can create amazing things with LEGO, but did you know you can also make vehicles that roll and model plans that include landing gear and flaps that actually extend and retract? You can even make functional robots without getting into Mindstorms and programming. In *Practical LEGO Technics*, Mark Rollins shows you how to use LEGO and Power Functions components like motors and remote controls to create motorized cars, all terrain vehicles, vehicle steering, construction equipment such as cranes and forklifts, airplanes. All-in-all, you'll learn to create a wide variety of fun, unique LEGO creations. LEGO Technic is similar to Mindstorms in that you can create all sorts of cool vehicles and gadgets. But unlike Mindstorms, you don't have to learn programming. Power Functions allows you to add motors, remote control, and battery boxes to your LEGO projects, no programming required. And while you could just build a LEGO Technic gadget from a boxed set, with *Practical LEGO Technics*, you'll learn the hows and whys of Technic project design, and pick up ideas for your own custom projects. Please note: The print version of this title is in black & white; the ebook is full color. You can download color images from the book at <http://www.apress.com/9781430246114> Covers basic design for motorized vehicles that run and steer. Shows how to build headlights and more using the Power Functions Light Kit. Provides suspension design for use in building all-terrain vehicles. Helps you build construction equipment, including a crane and forklift.

[Explore Simple Machines!](#) Jun 16 2021 From zippers to the Pyramids, rolling pins to catapults, we are surrounded by simple machines. This book will amaze kids with the ingenuity they already possess and inspire them to look differently at the objects they use everyday. *Explore Simple Machines!* With 25 Great Projects introduces kids to the concept of "mechanical advantage," and harnesses kid-power by inviting them to build machines of their own design. It opens their eyes to the diversity of machines in their lives, and sparks the imagination with challenge, humor, and achievable projects. *Explore Simple Machines!* dedicates a chapter to each of the six simple machines that were identified centuries ago: levers, inclined planes, pulleys, screws, wedges, and wheels & axles. Kids will develop analytical skills as they figure out where force is applied and what kind of work it generates.

[Genius LEGO Inventions with Bricks You Already Have](#) Sep 07 2020 Calling All Tinkerers, Experimenters & Inventors! Unleash Your Creative Powers with Exciting LEGO® Innovations Use science and engineering to transform your bin of LEGO® bricks into amazing, movable toys, machines and gadgets. Bestselling author Sarah Dees is back with an all-new collection of projects featuring ingenious designs and simple scientific principles that real engineers use every day. Make yourself a robot pal whose legs move as he rolls along, or a drummer who really plays the drums. Build a wind-up car complete with a flywheel that'll send your minifigures zooming. Or challenge your friends to a game of pinball on a LEGO® pinball machine you built from scratch. Each project is cooler than the next! It's easy and fun to build each of these awesome contraptions and games by following the clear step-by-step instructions and photographs. Think you have a different way to build something? Exercise your inventing muscles and tinker away! You're in charge of your designs, so experiment and tweak to make your inventions personal to you. No matter what you end up creating, you'll learn exciting new things about science, impress your family and have a blast along the way.

[Precalculus](#) Jul 06 2020 "Precalculus is intended for college-level precalculus students. Since precalculus courses vary from one institution to the next, we have attempted to meet the needs of as broad an audience as possible, including all of the content that might be covered in any particular course. The result is a comprehensive book that covers more ground than an instructor could likely cover in a typical one- or two-semester course; but instructors should find, almost without fail, that the topics they wish to include in their syllabus are covered in the text. Many chapters of OpenStax College Precalculus are suitable for other freshman and sophomore math courses such as College Algebra and Trigonometry; however, instructors of those courses might need to supplement or adjust the material. OpenStax will also be releasing College Algebra and Algebra and trigonometry titles tailored to the particular scope, sequence, and pedagogy of those courses."--Preface.

[Six Thinking Hats](#) Jun 24 2019 Meetings are a crucial part of all our lives, but too often they go nowhere and waste valuable time. In *Six Thinking Hats*, Edward de Bono shows how meetings can be transformed to produce quick, decisive results every time. The Six Hats method is a devastatingly simple technique based on the brain's different modes of thinking. The intelligence, experience and information of everyone is harnessed to reach the right conclusions quickly. These principles fundamentally change the way you work and interact. They have been adopted by businesses and governments around the world to end conflict and confusion in favour of harmony and productivity.

[The LEGO BOOST Idea Book](#) Aug 31 2022 The LEGO® BOOST® Idea Book contains dozens of ideas for building simple robots with the LEGO BOOST set. The LEGO® BOOST® Idea Book explores 95 creative ways to build simple robots with the LEGO BOOST set. Each model includes a parts list, minimal text, screenshots of programs, and colorful photographs from multiple angles so you can re-create it without step-by-step instructions. You'll learn to build robots that can walk and crawl, shoot and grab objects, and even draw using a pen! Each model demonstrates handy mechanical principles that you can use to come up with your own creations. Models come with building hints and ideas for putting your own spin on things. Best of all, every part you need to build these models comes in the LEGO BOOST Creative Toolbox (set #17101).

[The LEGO Power Functions Idea Book, Volume 2](#) Nov 02 2022 This second volume of *The LEGO Power Functions Idea Book, Cars and Contraptions*, showcases small projects to build with LEGO Technic gears, motors, gadgets, and other moving elements. You'll find hundreds of clever, buildable mechanisms, each one demonstrating a key building technique or mechanical principle. You'll learn to build four-wheel drive cars, adorable walking 'bots, steerable tanks, robotic inchworms, and cars that can follow the edge of a table! Each model includes a list of required parts and colorful photographs that guide you through the build without the need for step-by-step instructions. As you build, you'll explore the principles of gear systems, power translation, differentials, suspensions, and more.

[The Unofficial LEGO Technic Builder's Guide, 2nd Edition](#) Apr 26 2022 This thoroughly updated second edition of the best-selling *Unofficial LEGO Technic Builder's Guide* is filled with tips for building strong yet elegant machines and mechanisms with the LEGO Technic system. World-renowned builder Paweł "Sariel" Kmiec covers the foundations of LEGO Technic building, from the concepts that underlie simple machines, like gears and linkages, to advanced mechanics, like differentials and steering systems. This edition adds 13 new building instructions and 4 completely new chapters on wheels, the RC system, planetary gearing, and 3D printing. You'll get a hands-on

introduction to fundamental mechanical concepts like torque, friction, and traction, as well as basic engineering principles like weight distribution, efficiency, and power transmission—all with the help of Technic pieces. You'll even learn how Sariel builds his amazing tanks, trucks, and cars to scale. Learn how to: –Build sturdy connections that can withstand serious stress –Re-create specialized LEGO pieces, like casings and u-joints, and build custom, complex Schmidt and Oldham couplings –Create your own differentials, suspensions, transmissions, and steering systems –Pick the right motor for the job and transform it to suit your needs –Combine studfull and studless building styles for a stunning look –Build remote-controlled vehicles, lighting systems, motorized compressors, and pneumatic engines This beautifully illustrated, full-color book will inspire you with ideas for building amazing machines like tanks with suspended treads, supercars, cranes, bulldozers, and much more. What better way to learn engineering principles than to experience them hands-on with LEGO Technic? New in this edition: 13 new building instructions, 13 updated chapters, and 4 brand-new chapters!

Kingfishers to Bullet Trains Sep 19 2021 Some of the greatest inventions that changed the modern world have been based on nature. In *Kingfishers to Bullet Trains*, readers will discover how the invention of bullet trains were modeled after the face of kingfisher birds. Book includes table of contents, glossary, index, author biographies, and sidebars.

The Unofficial LEGO Technic Builder's Guide Feb 22 2022 The LEGO® Technic system opens a new realm of building possibilities. Using motors, gears, pneumatics, pulleys, linkages, and more, you can design LEGO models that really move. The Unofficial LEGO Technic Builder's Guide is filled with building tips for creating strong yet elegant machines and mechanisms with the Technic system. Author Pawel "Sairel" Kmicc will teach you the foundations of LEGO Technic building, from simple machines to advanced mechanics, even explaining how to create realistic to-scale models. Sariel, a world-renowned LEGO Technic expert, offers unique insight into mechanical principles like torque, power translation, and gear ratios, all using Technic bricks. You'll learn how to: * Create sturdy connections that can withstand serious stress * Re-create specialized LEGO pieces like casings and u-joints, and build solutions like Schmidt and Oldham couplings, when no standard piece will do * Build custom differentials, suspensions, transmissions, and steering systems * Pick the right motor for the job—and transform its properties to suit your needs * Combine studfull and studless building styles for a stunning look * Create remote-controlled vehicles, lighting systems, motorized compressors, and pneumatic engines This beautifully illustrated, full-color book will inspire you with ideas for building amazing machines like tanks with suspended treads, supercars, cranes, bulldozers, and much more. Your Technic adventure starts now!

EXPLORE FLIGHT! May 16 2021 Who invented the airplane? When were airplanes invented? And why do planes have wings if the wings don't flap? Kids can answer these questions and more by jumping into the cockpit and soaring into *Explore Flight!* With 25 Great Projects, where they'll learn about the history of our human obsession to conquer the feat of flying. For kids ages 6-9, *Explore Flight! With 25 Great Projects* introduces them to the dreamers, inventors, aviation pioneers, and record breakers. They will read about the myths and legends of flying and about the wondrous flying machines of the past, present and future. They will learn that in the 15th century Leonardo da Vinci drew sketches of airplanes, helicopters and other flying machines, and that the first passengers in a hot air balloon were a sheep, a rooster, and a duck. Along the way, they will develop a better understanding of the rich history of aviation, investigate what causes flight, and learn about the science of aerodynamics. Projects and experiments range from making a paper airplane to building an airfoil. All the projects in this book are easy to follow, require little adult supervision, and use commonly found household products, many from the recycling.

The LEGO MINDSTORMS EV3 Idea Book May 28 2022 The LEGO® MINDSTORMS® EV3 Idea Book explores dozens of creative ways to build amazing mechanisms with the LEGO MINDSTORMS EV3 set. Each model includes a list of the required parts, minimal text, and colorful photographs from multiple angles so you can re-create it without the need for step-by-step instructions. You'll learn to build cars with real suspension, steerable crawlers, ball-shooters, grasping robotic arms, and other creative marvels. Each model demonstrates simple mechanical principles that you can use as building blocks for your own creations. Best of all, every part you need to build these machines comes in one LEGO set (#31313)!

The Racecar Book Nov 21 2021 Though students aren't yet old enough to drive, that doesn't mean they can't satisfy their need for speed. Author and physics teacher Bobby Mercer will show readers 25 easy-to-build racecars that can be driven both indoors and out. Better still, each of these vehicles is constructed for little or no cost using recycled and repurposed materials. The *Racecar Book* will teach readers how to use mousetraps, rubber bands, chemical reactions, gravity, and air pressure to power these fast-moving cars. They will learn how to turn a potato chip can, a rubber band, and weights into a Chip-Can Dancer, or retrofit a toy car with a toy plane propeller to make an air-powered Prop Car. An effervescent tablet in a small canister makes an impressive rocket engine for a Mini Pop Car, and old CDs, a small cardboard food box, and drinking straws become a Mac-n-Cheese Roller. Every hands-on project contains a materials list and detailed step-by-step instructions. Mercer also includes explanations of the science behind each racecar, including concepts such as friction, Newton's laws of motion, kinetic and potential energy, and more. Teachers will appreciate the opportunity to augment their STEM curricula while having fun at the same time. These projects are also perfect for science fairs or design competitions. Bobby Mercer has been a high school physics teacher for over two decades. He is the author of *The Flying Machine Book* and *Smash It! Crash It! Launch It!* and lives with his family outside of Asheville, North Carolina.

Molecular Biology of the Cell Apr 02 2020

Anarchy, State, and Utopia Jan 30 2020 In this brilliant and widely acclaimed book, winner of the 1975 National Book Award, Robert Nozick challenges the most commonly held political and social positions of our age—liberal, socialist, and conservative.

Electronics for Kids Aug 19 2021 Why do the lights in a house turn on when you flip a switch? How does a remote-controlled car move? And what makes lights on TVs and microwaves blink? The technology around you may seem like magic, but most of it wouldn't run without electricity. *Electronics for Kids* demystifies electricity with a collection of awesome hands-on projects. In Part 1, you'll learn how current, voltage, and circuits work by making a battery out of a lemon, turning a metal bolt into an electromagnet, and transforming a paper cup and some magnets into a spinning motor. In Part 2, you'll make even more cool stuff as you: –Solder a blinking LED circuit with resistors, capacitors, and relays –Turn a circuit into a touch sensor using your finger as a resistor –Build an alarm clock triggered by the sunrise –Create a musical instrument that makes sci-fi sounds Then, in Part 3, you'll learn about digital electronics—things like logic gates and memory circuits—as you make a secret code checker and an electronic coin flipper. Finally, you'll use everything you've learned to make the LED Reaction Game—test your reaction time as you try to catch a blinking light! With its clear explanations and assortment of hands-on projects, *Electronics for Kids* will have you building your own circuits in no time.

The LEGO® Ideas Book Jan 24 2022 Over 2 million copies sold worldwide! Be inspired to create and build amazing models with your LEGO® bricks! The LEGO Ideas Book is packed full of tips from expert LEGO builders on how to make jet planes reach new heights, create fantastic fortresses, swing through lush jungles, have fun on the farm and send space shuttles out of this world! This awesome ideas book is divided into six themed chapters - transport, buildings, space, kingdoms, adventure, and useful makes - to inspire every member of the family to get building. With over 500 models and ideas, this book is perfect for any LEGO fan - young or young at heart - who want to make their models cool, fun and imaginative. ©2020 The LEGO Group.

Unconventional Vehicles Feb 10 2021 "In this illustrated compendium, readers will learn about forty-five of the strangest, most unconventional vehicles that have ever existed—from submersibles to dirigibles, and everything in between!"--

LEGO Technic Non-Electric Models: Simple Machines Mar 26 2022 Master builder and LEGO luminary Yoshihito Isogawa helps you build more than 100 creative, non-electric models with LEGO Technic parts. Part of a two-volume set. This book in the LEGO Technic Non-Electric Models series features 141 motor-free devices for you to build and operate. Each project includes full-color photographs from multiple angles and illustrated Technic parts to help you follow along. The models range from basic mechanisms that showcase the power of gears and rotation to moving vehicles that demonstrate linear, oscillating, rotary, and reciprocating motion. The Technic models in *Simple Machines* require no electric elements or sensors. Instead, they operate with cranks, chains, cams, rack-and-pinion gears, rubber bands, weights, and flywheels. As you explore these projects and develop your building skills, you'll be inspired to create your own mechanical marvels. This Technic guide is part of a series, and the brainchild of master builder Yoshihito Isogawa. Each book in the series is filled with vibrant photos of Isogawa's unique non-electric models, which will fire up the imaginations of LEGO builders of all ages. Imagine. Create. Invent. Now, what will you build?

Time, Talent, Energy Jan 12 2021 Managing Your Scarcest Resources Business leaders know that the key to competitive success is smart management of scarce resources. That's why companies allocate their financial capital so carefully. But capital today is cheap and abundant, no longer a source of advantage. The truly scarce resources now are the time, the talent, and the energy of the people in your organization—resources that are too often squandered. There's plenty of advice about how to manage them, but most of it focuses on individual actions. What's really needed are organizational solutions that can unleash a company's full productive power and enable it to outpace competitors. Building off of the popular Harvard Business Review article "Your Scarcest Resource," Michael Mankins and Eric Garton, Bain & Company experts in organizational design and effectiveness, present new research into how you can liberate people's time, talent, and energy and unleash your organization's productive power. They identify the specific causes of organizational drag--the collection of institutional factors that slow things down, decrease output, and drain people's energy--and then offer a pragmatic framework for how managers can overcome it. With practical advice for using the framework and in-depth examples of how the best companies manage their people's time, talent, and energy with as much discipline as they do their financial capital, this book shows managers how to create a virtuous circle of high performance.

LEGO Technic Non-Electric Models: Clever Contraptions Dec 23 2021 Master builder and LEGO luminary Yoshihito Isogawa helps you build more than 100 creative, non-electric models with LEGO Technic parts. Part of a two-volume set. This book in the LEGO Technic Non-Electric Models series features 106 motor-free mechanisms for you to build and operate. Each project includes full-color photographs from multiple angles and illustrated Technic parts to help you follow along. The models range from practical tools for lifting, gripping, shooting, and measuring to working gadgets that demonstrate principles of mechanical engineering. The Technic models in *Clever Contraptions* require no electric elements or sensors. Instead, you'll use cranks, winches, doors, and rotators to operate devices including wind turbines, spinning tops, grabbing tools, and a spirograph. The clever kinetic ideas at play will inspire you to create your own mechanical marvels. This Technic guide is part of a series, and the brainchild of master builder Yoshihito Isogawa. Each book in the series is filled with vibrant photos of Isogawa's unique non-electric models, which will fire up the imaginations of LEGO builders of all ages. Imagine. Create. Invent. Now, what will you build?

The American Revolution Jul 18 2021 Kids love stories about underdogs, and the American Revolution is among the most famous of these tales. Desperate to be an independent country free from Britain, the rebel colonists relied on their cunning wit and visionary leadership to win an impossible war. And then they faced the real hardship—creating a country out of a victorious but chaotic society. Using engaging text, hands-on activities, and links to primary sources, *The American Revolution: Experience the Battle for Independence* shows readers how rebel soldiers fought in horrific conditions while their families faced their own hardships for the sake of freedom. Students examine wartime propaganda to discover the truth about events leading up to the war, and engage in vibrant debate, strategic planning, and literary deconstruction to understand the official documents upon which America is founded. Building a marshmallow cannon and creating real colonial food are some of the projects that engage readers' design skills. Essential questions require readers to activate their critical thinking skills to discover the truth about the most important moment in American history. The American Revolution meets Common Core State Standards for literacy in history and social studies; Guided Reading Levels and Lexile measurements indicate grade level and text complexity.

LEGO Technic Non-Electric Models: Simple Machines Oct 21 2021 Master builder and LEGO luminary Yoshihito Isogawa helps you build more than 100 creative, non-electric models with LEGO Technic parts. Part of a two-volume set. This book in the LEGO Technic Non-Electric Models series features 141 motor-free devices for you to build and operate. Each project includes full-color photographs from multiple angles and illustrated Technic parts to help you follow along. The models range from basic mechanisms that showcase the power of gears and rotation to moving vehicles that demonstrate linear, oscillating, rotary, and reciprocating motion. The Technic models in *Simple Machines* require no electric elements or sensors. Instead, they operate with cranks, chains, cams, rack-and-pinion gears, rubber bands, weights, and flywheels. As you explore these projects and develop your building skills, you'll be inspired to create your own mechanical marvels. This Technic guide is part of a series, and the brainchild of master builder Yoshihito Isogawa. Each book in the series is filled with vibrant photos of Isogawa's unique non-electric models, which will fire up the imaginations of LEGO builders of all ages. Imagine. Create. Invent. Now, what will you build?

The Idea of Public Law Sep 27 2019 This book offers an answer to the question: what is public law? It suggests that an adequate explanation can only be given once public law is recognized to be an autonomous discipline, with its own distinctive methods and tasks. Martin Loughlin defends this claim by identifying the conceptual foundations of the public law in governing, politics, representation, sovereignty, constituent power, and rights. By explicating these basic elements of the subject, he seeks not only to lay bare its method but also to present a novel account of the idea of public law. Readership: Advanced students and scholars in public law; political theorists and students of political theory. Also the relatively small number of barristers and judges who specialise in public law.

The LEGO MINDSTORMS Robot Inventor Idea Book Jun 28 2022 A follow-up to the best-selling LEGO® Technic Idea Book series by master builder and LEGO luminary Yoshihito Isogawa, readers learn to create their own robots from the LEGO MINDSTORMS Robot Inventor Set. If you've had your fun building programmable, intelligent creations with the LEGO® MINDSTORMS® Robot Inventor set, it's time to take your bot-building to the next level! With over 125 new models, the LEGO MINDSTORMS Robot Inventor Idea Book will unleash your imagination and open up limitless possibilities for unique robotic designs. You'll learn how to build basic mechanisms with motors and sensors, robots that can walk or drive themselves, and practical tools for lifting, opening doors, drawing, and even launching projectiles. Then, bring them all to life with the LEGO MINDSTORMS Robot Inventor App, which lets you program your bots to perform tasks and missions. Each model is paired with an illustrated list of parts and multi-angled color photographs, so you can easily reproduce the projects without the need for step-by-step instructions. Best of all, you'll also be inspired to combine various mechanisms into your own interactive inventions, toys, cars, games, and more! To build the book's models, all you need is the LEGO® MINDSTORMS® Robot Inventor set (#51515) and a smart device that can run the MINDSTORMS App.

A Shot in the Arm! Oct 28 2019 Award-winning author Don Brown explores the history of vaccines from smallpox to COVID-19 in this installment of the Big Ideas That Changed the World series *A Shot in the Arm!* explores the history of vaccinations and the struggle to protect people from infectious diseases, from smallpox—perhaps humankind's greatest affliction to date—to the COVID-19 pandemic. Highlighting deadly diseases such as measles, polio, rabies, cholera, and influenza, Brown tackles the science behind how our immune systems work, the discovery of bacteria, the anti-vaccination movement, and major achievements from Lady Mary Wortley Montagu, who popularized inoculation in England, and from scientists like Louis Pasteur, Antonie van Leeuwenhoek, and Edward Jenner, the "father of immunology." Timely and fascinating, *A Shot in the Arm!* is a reminder of vaccines' contributions to public health so far, as well as the millions of lives they can still save. *Big Ideas That Changed the World* is a graphic novel series that celebrates the hard-won succession of ideas that ultimately changed the world. Humor, drama, and art unite to tell the story of events, discoveries, and ingenuity over time that led humans to come up with a big idea and then make it come true.

The Functions of the Police in Modern Society Aug 26 2019

The LEGO Power Functions Idea Book, Volume 2 Apr 14 2021 This second volume of *The LEGO Power Functions Idea Book*, *Cars and Contraptions*, showcases small projects to build with LEGO Technic gears, motors, gadgets, and other moving elements. You'll find hundreds of clever, buildable mechanisms, each one demonstrating a key building technique or mechanical principle. You'll learn to build four-wheel drive cars, adorable walking 'bots, steerable tanks, robotic inchworms, and cars that can follow the edge of a table! Each model includes a list of required parts and colorful photographs that guide you through the build without the need for step-by-step instructions. As you build, you'll explore the principles of gear systems, power translation, differentials, suspensions, and more.

The LEGO Trains Book Nov 09 2020 Learn the model-making process from start to finish, including the best ways to choose scale, wheels, motors, and track layout. Get advice for building steam engines, locomotives, and passenger cars, and discover fresh ideas and inspiration for your own LEGO train designs. Inside you'll find: -A historical tour of LEGO trains -Step-by-step building instructions for models of the German Inter-City Express (ICE), the Swiss "Crocodile," and a vintage passenger car -Tips for controlling your trains with transformers, receivers, and motors -Advice on advanced building techniques like SNOT (studs not on top), microstripping, creating textures, and making offset connections -Case studies of the design process -Ways to use older LEGO pieces in modern designs For ages 10+

The LEGO Neighborhood Book 2 Dec 11 2020 Step-by-step instructions show how to build detailed LEGO models of neighborhoods - complete with homes, stores, restaurants, barbershops, and more. Enter the fantastical world of model building. The LEGO Neighborhood Book 2 is a full-color guide to creating intricate, bustling LEGO neighborhoods, and cities. In this second volume, a follow up to the runaway best-selling first volume, you'll learn even more ways to create classic architectural styles using only LEGO bricks. In addition to creating entire buildings, LEGO model-building experts Brian and Jason Lyles also show you how to create interesting architectural features like cornices, false fronts, porches, and detailed interiors and furniture. With instructions for three buildings and many smaller builds, *The LEGO Neighborhood Book 2* is sure to provide hours of building fun and inspiration for readers of all ages.