

Star Wars Maker Lab 20 Craft And Science Projects

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Star Wars Maker Lab Liz Lee Heinecke 2018-07-03 A combination of fun activities and intergalactic experiments will teach your budding Padawan how to become a Master of science, in both the real world and the Star Wars galaxy! Have you ever wanted to move things without touching them like a Jedi can? Or maybe explode a balloon with a beam of energy? Now you can! Learn the basics of science by travelling through the Star Wars galaxy. This book is perfect for budding scientists and Star Wars aficionados alike. The 20 projects are full of fun facts for kids, colorful diagrams, and easy-to-follow instructions that cover a range of topics that will enthrall and entertain. Star Wars Maker Lab is filled with science and science fiction for readers between ages 9-12. Unleash Your Inner Scientist, Engineer And Artist! With a blockbuster 128 pages packed with 20 fabulous projects, Star Wars Maker Lab is out of this world! Using the clear step-by-step instructions, it guides home scientists and makers through each exciting experiment - from making Jabba's gooey slime or a hovering land speeder, to an Ewok catapult and a glowing Gungan Globe of Peace. Each experiment has fact-filled panels to explain real-world science as well as the Star Wars science fiction from the movies. This Star Wars book, covering a range of STEM topics keeps children entertained for hours, making use of many household items such as cardboard tubes, baking soda, cornstarch, straws, balloons, and food coloring. There is also plenty to keep more adventurous scientists enthralled, with instructions to make a bristlebot mouse droid, lightsaber duel, and Mustafar volcano Learn about the galaxy we live in, inspired by one far, far away: - Explore

STEM topics from science to science-fiction - Stir up some sticky Jabba the Hutt Slime - Duel with Lightsabers - Create an erupting Mustafar Volcano - Delve into the mechanics of the Star Wars universe from Speed Gliders to Anakin's Mechno-Arm and more! Star Wars Maker Lab is part of the educational series Maker Lab. Maker Lab includes kid-safe projects and crafts that will get young inventors' wheels turning and make science pure fun. Photographs and facts carefully detail the "why" and "how" of each experiment using real-world examples to provide context so kids can gain a deeper understanding of the scientific principles applied. Maker Lab will help kids find their inner inventor and create winning projects for school projects, science fairs, and beyond. © & TM 2017 LUCASFILM LTD. Used Under Authorization.

The Wookiee Storybook Star Wars 1979 Lumpy's descent to the mother world on his jungle planet to hunt for special berries for his father's homecoming becomes a scary adventure.

Look I'm a Scientist DK 2017-06-06 An activity ebook that will help little ones discover everyday science as they play their way through 14 exciting home science experiments! Full of hands-on activities that will tap straight into your child's natural scientific curiosity. The experiments are easy to follow and use items that most people already have tucked away at home. Look I'm A Scientist is the most incredible introduction to science for kids. From an iceberg animal rescue to stretchy slime and a science wizard potion. Kids can pour it, mix it, feel it, and more, as each sensory-friendly activity becomes an ever-so-exciting science experiment. The 14 activities in this educational ebook are easy to prepare, set up, and create. A step-by-step visual guide and a charming design make it the perfect STEM activity ebook for parents and their little ones to explore together. Each activity is designed to let your child play and learn with all their senses. Together you can grow their love of science and their understanding of the world. Little scientists will discover fun facts like why water goes stiff in the freezer, what makes slime super stretchy, how to make the best soap bubbles, and lots more. With Look I'm A Scientist children can touch, smell, see, hear, and taste their way to scientific amazement. And remember, making a mess is part of the fun and learning! Find Out Why, What, And How! You were born with everything you need to be an extraordinary scientist - a fantastic brain and super senses. Get ready to touch, smell, see, hear, and taste your way to scientific discovery. Being a little scientist has never been so much fun! Full of amazing science experiments for kids like: - Homemade playdough - Ooey gooey slime - A bubble volcano - And

much, much more! DK's Look! I'm Learning series of exciting and educational STEM ebooks, focus on the sensory experience of practical learning and play, and find the science in everyday activities. Hands-on learning experiences tap straight into kids' insatiable curiosity and sense of wonder. These ebooks for children are perfect for ages 3-6, formatted with a padded cover and toddler-tough pages. The series encourages children to develop independence and improves their critical thinking, investigation skills, and motor skills. Try the other titles in the series next, including Look I'm A Cook, Look I'm A Mathematician, and Look I'm An Engineer.

Clever Creatures Steve Mould 2020-06-23 A look at animals and plants from the point of view of their amazing scientific adaptations. Join bestselling author Steve Mould to uncover nature's greatest scientists, engineers, and mathematicians from plants that can count to architect insects. If you thought all scientists wear white coats and work in labs, think again! Meet amazing engineers, such as the spiders who build immense webs from different kinds of silk; funky physicists, like the bats that can see with sound; and surprising chemists, such as the corpse flower that smells like smelly socks to attract insects to pollinate it! The science behind each genius adaptation is explained clearly in Steve Mould's trademark humorous style and you'll be amazed by nature's solutions to some of the world's trickiest problems. Clever Creatures is a brilliant introduction to some of nature's cleverest animals and plants. You'll never look at nature the same way again!

The Grown-Up's Guide to Making Art with Kids Lee Foster-Wilson 2019-05-21 Make art and memories with the special kids in your life! Packed with how-to drawing and painting projects, creative prompts, and original crafting activities, The Grown-Up's Guide to Making Art with Kids will inspire you and your little ones to spend hours of creative fun together. This book includes drawing and painting projects featuring popular, kid-friendly, and on-trend subjects—like dinosaurs, pets, flowers, and robots—that adults and kids can create together. Guided practice pages invite interactivity and allow children and adults to draw and paint the same subjects, side by side, for a fun-filled joint activity. The book's artwork is colorful, approachable, and done using ordinary, easily available art tools, including markers, crayons, colored pencils, and acrylic paint. In addition to drawing lessons, The Grown-Up's Guide to Making Art with Kids also includes projects and ideas for using artwork created from the prompts in the book to make crafts,

including a map, pop-up art, and paper dolls. The Grown-Up's Guide to Making Art with Kids teaches valuable drawing, painting, and crafting skills to both kids and adults; inspires creativity; and encourages family togetherness. What better way to avoid screen time than by drawing, painting, and creating together with your kids?

IncrediBuilds: Star Wars: Tie Fighter Deluxe Book and Model Set Insight Editions 2016-06-28 Build your own TIE Fighter with this IncrediBuilds: Star Wars model kit, featuring a full-color booklet filled with fascinating facts and trivia and awesome imagery of the craft in action. Build and color your own 3D TIE Fighter model and learn all about the classic Star Wars spacecraft in this deluxe IncrediBuilds™ book set. This exciting Star Wars book and wooden model bring to life one of the Galactic Empire's deadliest weapons: the TIE Fighter. The full-color, hardcover book includes everything you need to know about the TIE Fighter, from basic flight and weapons capabilities to pilot training, notable battles, and the wide variety of TIE Fighter models, such as the TIE Interceptor and TIE Bomber. The wooden model is easy to assemble and snaps together to form a dynamic, displayable 3D version of this fan-favorite Star Wars spacecraft. Includes: -Laser-cut, FSC-certified wood sheet with easy-to-assemble pieces -Step-by-step instructions -Coloring and crafting ideas -A TIE Fighter guidebook, Inside the Empire's Winged Menace
Skill Level: Advanced

Inventor Lab DK 2019-10-03 This DK children's book aged 11-14 is brimming with exciting, educational activities and projects that focus on electronics and technology. Keep your siblings out of your room with a brilliant bedroom alarm, power a propellor motorboat, make a stereo from pipes, build your own AM radio, and construct a night light by following step-by-step instructions and using affordable equipment. Inventor Lab will engage budding scientists and engineers as they experiment, invent, trial, and test technology, electronics, and mechanics at home. Simple steps with clear photographs take readers through the stages of each low-cost project, with fact-filled "How it works" panels to explain the science behind each one, and to fascinate them with real-world examples. With an increasing focus across school curricula on encouraging children to enjoy and explore STEM subjects (science, technology, engineering, and maths), Inventor Lab is the perfect companion for any inquisitive child with an interest in how the worlds of science experiments and technology work, and why.

Outdoor Maker Lab Robert Winston 2018-03-01 Experience the great outdoors as never before with the most exciting experiments on Earth. This fun-packed, fact-filled book sees you out and about putting into practice 25 sensational scientific experiments. Get out of the house and explore the science in your own surroundings as you use everyday household items in mind-blowing ways to build up your knowledge of biology, chemistry, and physics. Launch a water rocket to learn about air pressure or blow giant bubbles to reveal how surface tension works. Build your own wormery to watch the way worms tunnel underground or fly your own diamond kite to understand aerodynamics in action. A fascinating foreword by science superstar Robert Winston ensures the readers are excited and enthusiastic from the start. Stunning specially commissioned photography results in a visual feast, together with step-by-step text, how it works explanations, scientific principles in action, and real-world examples. Whether you want to impress your friends, create a cool school project, or become a budding scientist of tomorrow, pick this book up and get started.

The Kitchen Pantry Scientist Physics for Kids Liz Lee Heinecke 2022-02-08 The Kitchen Pantry Scientist: Physics for Kids features biographies of 25 leading physicists, past and present, accompanied by accessible, hands-on experiments and activities to bring the history and principles of physics alive.

The Maker Movement Manifesto: Rules for Innovation in the New World of Crafters, Hackers, and Tinkerers Mark Hatch 2013-09-25 A cofounder of the popular makerspace TechShop discusses the growing maker movement, describing how ordinary individuals are using previously unavailable tools and technologies to create innovative products and successful businesses.

I Am a Padawan (Star Wars) Ashley Eckstein 2020-04-07 Meet Ahsoka Tano, a brave Jedi-in-training--also known as a Padawan--in this Star Wars Little Golden Book written by Ashley Eckstein! This Little Golden Book follows the journey of Ahsoka Tano, a brave Padawan from the epic Star Wars space saga, as she learns the mysterious ways of the Force from her Jedi teachers Anakin Skywalker, Yoda, and Obi-Wan Kenobi. Written by Ashley Eckstein, the voice of Ahsoka Tano in the Star Wars: The Clone Wars and Star Wars: Rebels animated series, this beautifully-illustrated book is perfect for Star Wars--and Little Golden Book--fans of all ages!

Kitchen Science Lab for Kids: EDIBLE EDITION Liz Lee Heinecke 2019-06-11 Kitchen Science Lab for Kids: EDIBLE EDITION gives you 52 delicious ways to explore food science in your own kitchen by making everything from healthy homemade snacks to scrumptious main dishes and mind-boggling desserts. When you step into your kitchen to cook or bake, you put science to work. Physics and chemistry come into play each time you simmer, steam, bake, freeze, boil, puree, saute, or ferment food. Knowing something about the physics, biology, and chemistry of food will give you the basic tools to be the best chef you can be. Bodacious Bubble Tea, Flavorful Fruit Leather, Super Spring Rolls, Mouthwatering Meatballs...divided by course, each lab presents a step-by-step recipe for a delicious drink, snack, sauce, main dish, dessert, or decoration. The Science Behind the Food section included with each recipe will help you understand the science concepts and nutrition behind the ingredients. Have fun learning about: Bacteria and the chemical process of fermentation by making your own pickled vegetables. Emulsion as you create your own vinaigrette. How trapped water vapor causes a popover to inflate as you make your own. Crystals by making your own ice cream. Mix and match the recipes to pair pasta with your favorite sauce, make ice cream to serve in homemade chocolate bowls, or whip up the perfect frosting for your cake. There are plenty of fun, edible decorations included for the art lovers in the crowd. Before long, you'll have the confidence to throw together a feast, bake and decorate show-worthy cakes, or use what you've learned to create your own recipes. For those with food allergies, all recipes are nut-free and other allergens are clearly labeled throughout. Let's get cooking—and learning! The popular Lab for Kids series features a growing list of books that share hands-on activities and projects on a wide host of topics, including art, astronomy, clay, geology, math, and even how to create your own circus—all authored by established experts in their fields. Each lab contains a complete materials list, clear step-by-step photographs of the process, as well as finished samples. The labs can be used as singular projects or as part of a yearlong curriculum of experiential learning. The activities are open-ended, designed to be explored over and over, often with different results. Geared toward being taught or guided by adults, they are enriching for a range of ages and skill levels. Gain firsthand knowledge on your favorite topic with Lab for Kids.

Kitchen Science Lab for Kids Liz Lee Heinecke 2014-08 DIVA-at-home science provides an environment for freedom, creativity and invention that is not always possible in a school setting. In your own kitchen, it's

simple, inexpensive, and fun to whip up a number of amazing science experiments using everyday ingredients. Science can be as easy as baking. Hands-On Family: Kitchen Science Lab for Kids offers 52 fun science activities for families to do together. The experiments can be used as individual projects, for parties, or as educational activities groups. Kitchen Science Lab for Kids will tempt families to cook up some physics, chemistry and biology in their own kitchens and back yards. Many of the experiments are safe enough for toddlers and exciting enough for older kids, so families can discover the joy of science together.

Wired Remote Race Car Klutz 2018-12 Makers, start your engines! Power your interest in circuitry and engineering with this DIY wired remote race car. This kit includes everything you need to build a chipboard craft car and learn the basics of wiring and switches. The included instruction book will have you zooming around in no time! 2 AA batteries not included. Comes With: Chipboard parts, motor, battery pack, 2 switches, wire in 2 colors, plastic tube, steel rod, 12 large quick slide connectors, 4 small quick slide connectors, 4 plastic wheels, plastic fastenings

Disney Ideas Book DK 2018-10-02 Bring your love of Disney to life with more than 100 amazing and creative projects and activities. Let your imagination run wild with Disney inspired arts and crafts, party games, puzzles, papercraft, and many more fun and practical activities. With clear, step-by-step instructions, The Disney Ideas Book guides you through each exciting activity from creating glowing BFG Dream Jars and performing a puppet show in a Jungle Book shoebox theater, to playing skittles with the Seven Dwarfs and growing grass hair on Frozen Trolls. Featuring family favorite characters from animation and live-action movies and TV, including Frozen, Toy Story, Moana, Inside Out, and Cinderella. The activities are suitable for kids and adults alike, whatever their level of ability. There are top tips on every page from expert crafters to help make your creations a success, as well as fun Disney facts to pore over. With the Disney Ideas Book, your family will never be bored again. ©Disney/Pixar

Medieval Jousts and Tournaments John Green 1998-01-01 All the thrills, spectacle, and excitement of tournament life in 43 realistic drawings: a free-for-all on an open battlefield, a dying knight receiving last rites, much more.

The Kitchen Pantry Scientist Chemistry for Kids Liz Lee Heinecke 2020-05-05 Replicate a chemical reaction similar to one Marie Curie used to purify radioactive elements! Distill perfume using a method created in ancient Mesopotamia by a woman named Tapputi! Aspiring chemists will discover these and more amazing role models and memorable experiments in *Chemistry for Kids*, the debut book of The Kitchen Pantry Scientist series. This engaging guide offers a series of snapshots of 25 scientists famous for their work with chemistry, from ancient history through today. Each lab tells the story of a scientist along with some background about the importance of their work, and a description of where it is still being used or reflected in today's world. A step-by-step illustrated experiment paired with each story offers kids a hands-on opportunity for exploring concepts the scientists pursued, or are working on today. Experiments range from very simple projects using materials you probably already have on hand, to more complicated ones that may require a few inexpensive items you can purchase online. Just a few of the incredible people and scientific concepts you'll explore: Galen (b. 129 AD) Make soap from soap base, oil, and citrus peels. Modern application: medical disinfectants Joseph Priestly (b. 1733) Carbonate a beverage using CO₂ from yeast or baking soda and vinegar mixture. Modern application: soda fountains Alessandra Volta (b. 1745) Make a battery using a series of lemons and use it to light an LED. Modern application: car battery Tu Youyou (b. 1930) Extract compounds from plants. Modern application: pharmaceuticals and cosmetics People have been tinkering with chemistry for thousands of years. Whether out of curiosity or by necessity, Homo sapiens have long loved to play with fire: mixing and boiling concoctions to see what interesting, beautiful, and useful amalgamations they could create. Early humans ground pigments to create durable paint for cave walls, and over the next 70 thousand years or so as civilizations took hold around the globe, people learned to make better medicines and discovered how to extract, mix, and smelt metals for cooking vessels, weapons, and jewelry. Early chemists distilled perfume, made soap, and perfected natural inks and dyes. Modern chemistry was born around 250 years ago, when measurement, mathematics, and the scientific method were officially applied to experimentation. In 1896, after the first draft of the periodic table was published, scientists rushed to fill in the blanks. The elemental discoveries that followed gave scientists the tools to visualize the building blocks of matter for the first time in history, and they proceeded to deconstruct the atom. Since then, discovery has accelerated at an unprecedented rate. At times, modern chemistry and its creations have caused heartbreaking, unthinkable harm, but more often than not, it makes our lives better. With this

fascinating, hands-on exploration of the history of chemistry, inspire the next generation of great scientists.

Radiant Liz Heinecke 2021-02-16 Part hidden history, part love letter to creative innovation, this is the true story of an unlikely friendship between a dancer, Loie Fuller, and a scientist, Marie Curie, brought together by an illuminating discovery. At the turn of the century, Paris was a hotbed of creativity. Technology boomed, delivering to the world electric light, the automobile, and new ways to treat disease, while imagination blossomed, creating Art Nouveau, motion pictures, and modernist literature. A pivotal figure during this time, yet largely forgotten today, Loie Fuller was an American performance artist who became a living symbol of the Art Nouveau movement with her hypnotic dances and stunning theatrical effects. Credited today as the pioneer of modern dance, she was perennially broke, never took no for an answer, spent most of her life with a female partner, and never questioned her drive. She was a visionary, a renegade, and a loyal friend. In the early 1900s, she heard about Marie Curie's discovery of a glowing blue element and dreamed of using it to dazzle audiences on stage. While Loie's dream wouldn't be realized, her connection with Marie and their shared fascination with radium endured. Radiant is the true story of Marie Curie and Loie Fuller, two revolutionary women drawn together at the dawn of a new era by a singular discovery, and the lifelong friendship that grew out of their shared passion for enlightenment.

Maker Lab: Outdoors Jack Challoner 2018-03-06 Learn how to think like a scientist and discover the skills it takes to bring scientific theories and practical experiments together at home. Maker Lab Outdoors takes kids on a journey to better understand the world of science that will keep the whole family curiously experimenting for hours. Everything around your household is an apparatus. Maker Lab Outdoors book teaches your aspiring scientist how to use common household items to conduct dozens of mind-blowing science experiments. The book displays rich visual illustrations, easy to follow step-by-step instructions and rigorous attention to detail. It also contains activities that can be enjoyed by the whole family. Each science activity has a clear how it works explanation, revealing the fascinating science behind the experiments, along with real-world examples. The best way to learn is to have fun. This easy to read and understand book about science contains facts and experiments suitable for young aspiring scientists. Learn The Science Behind Every Experiment Play pretend your favorite scientist or become one at home. Maker Lab Outdoors takes you on a step-by-step guide on how to do sensational science experiments like

creating enormous bubbles, explore freeze-thaw action and constructing a compass using everyday materials in the great outdoors. This book will inspire you to start conducting your own experiments and exploring the principles of science. This interactive science book supports STEM education initiatives, a must have for every young scientist curious about their surroundings. Written by Author Robert Winston, a world-renowned scientist who has combined ground-breaking academic work with an ability to communicate ideas in a method of general understanding. *Maker Lab Outdoors* explores the science of: - Earth and Sky - Water Power - Nature Watch - World of Weather - Space - And more *Maker Lab Outdoors: 25 Super Cool Projects* features twenty-five science projects and experiments to be done outside using common household items, sparking kids' creativity and helping them develop science skills through hands-on learning.

Unofficial Minecraft Lab for Kids John Miller 2016-06 Explains how to pair the game Minecraft with activities to present information about such subjects as math, science, and history.

Human Dimension and Interior Space Julius Panero 2014-01-21 The study of human body measurements on a comparative basis is known as anthropometrics. Its applicability to the design process is seen in the physical fit, or interface, between the human body and the various components of interior space. *Human Dimension and Interior Space* is the first major anthropometrically based reference book of design standards for use by all those involved with the physical planning and detailing of interiors, including interior designers, architects, furniture designers, builders, industrial designers, and students of design. The use of anthropometric data, although no substitute for good design or sound professional judgment should be viewed as one of the many tools required in the design process. This comprehensive overview of anthropometrics consists of three parts. The first part deals with the theory and application of anthropometrics and includes a special section dealing with physically disabled and elderly people. It provides the designer with the fundamentals of anthropometrics and a basic understanding of how interior design standards are established. The second part contains easy-to-read, illustrated anthropometric tables, which provide the most current data available on human body size, organized by age and percentile groupings. Also included is data relative to the range of joint motion and body sizes of children. The third part contains hundreds of dimensioned drawings, illustrating in plan and section the proper

anthropometrically based relationship between user and space. The types of spaces range from residential and commercial to recreational and institutional, and all dimensions include metric conversions. In the Epilogue, the authors challenge the interior design profession, the building industry, and the furniture manufacturer to seriously explore the problem of adjustability in design. They expose the fallacy of designing to accommodate the so-called average man, who, in fact, does not exist. Using government data, including studies prepared by Dr. Howard Stoudt, Dr. Albert Damon, and Dr. Ross McFarland, formerly of the Harvard School of Public Health, and Jean Roberts of the U.S. Public Health Service, Panero and Zelnik have devised a system of interior design reference standards, easily understood through a series of charts and situation drawings. With *Human Dimension and Interior Space*, these standards are now accessible to all designers of interior environments.

STEAM Lab for Kids Liz Lee Heinecke 2018-05-08 *STEAM Lab for Kids* is an art-forward doorway to science, math, technology, and engineering through 52 family-friendly experiments and activities. While many aspiring artists don't necessarily identify with STEM subjects, and many young inventors don't see the need for art, one is essential to the other. Revealing this connection and encouraging kids to explore it fills hungry minds with tools essential to problem solving and creative thinking. Each of the projects in this book is designed to demonstrate that the deeper you look into art, the more engineering and math you'll find. "The STEAM Behind the Fun" sections throughout explain the science behind the art. Learn about: angular momentum by making tie-dyed fidget spinners. electrical conductors by making graphite circuits. kinetic energy by making a rubber band shooter. symmetry by making fruit and veggie stamps. much more! From graphite circuit comic books to edible stained glass, young engineers and artists alike will find inspiration aplenty. The popular Lab for Kids series features a growing list of books that share hands-on activities and projects on a wide host of topics, including art, astronomy, clay, geology, math, and even how to create your own circus—all authored by established experts in their fields. Each lab contains a complete materials list, clear step-by-step photographs of the process, as well as finished samples. The labs can be used as singular projects or as part of a yearlong curriculum of experiential learning. The activities are open-ended, designed to be explored over and over, often with different results. Geared toward being taught or guided by adults, they are enriching for a range of ages and skill levels. Gain firsthand knowledge on your favorite topic with Lab for Kids.

Star Wars Make and Do 2017-03-09 Learn how to draw your favourite Star Wars characters, create cool crafts, and design your own masterpieces in this incredible activity folder. Follow the steps to sketch and colour Yoda, Darth Vader, R2-D2 and many more. Make a hairy Wookiee puppet and a papier mache stormtrooper helmet. Then use the sketchpad to bring your own ideas and drawings to life. Includes stickers and templates to enhance your creations. The Star Wars activity book that no child should be without, Look out for other Star Wars activity books: Star Wars: Art Therapy Star Wars: Dot to Dot Star Wars: Colouring by Numbers Star Wars: Galaxy of Colouring Star Wars Art of Colouring: The Force Awakens

Outdoor Science Lab for Kids Liz Lee Heinecke 2016-06 Learn physics, chemistry, and biology in your own backyard! In Outdoor Science Lab for Kids, scientist and mom Liz Heinecke has created 52 family-friendly labs designed to get you and yours outside in every season. From playground physics to backyard bugs, this book makes it fun and easy to dig into the natural sciences and learn more about the world around you. Have fun learning about: the laws of physics by constructing and using a marshmallow catapult. centripetal forces by swinging a sock filled with gelatin snack and marbles. earthworms by using ground mustard seed dissolved in water to make them wriggle to the surface. germination by sprouting a sapling from a pinecone or tree seed. surface tension and capillary action by growing baking soda stalagmites and stalactites. Many of the simple and inexpensive experiments are safe enough for toddlers, yet exciting enough for older kids, so families can discover the joy of science and STEM education together. Outdoor Science Lab for Kids was a 2017 Finalist for the AAAS/Subaru Prize for excellence in science books. The popular Lab for Kids series features a growing list of books that share hands-on activities and projects on a wide host of topics, including art, astronomy, clay, geology, math, and even how to create your own circus—all authored by established experts in their fields. Each lab contains a complete materials list, clear step-by-step photographs of the process, as well as finished samples. The labs can be used as singular projects or as part of a yearlong curriculum of experiential learning. The activities are open-ended, designed to be explored over and over, often with different results. Geared toward being taught or guided by adults, they are enriching for a range of ages and skill levels. Gain firsthand knowledge on your favorite topic with Lab for Kids.

STEM Lab Jack Challoner 2019-01-29 From racing wind up cars to making music with a homemade guitar, STEM Lab will excite and inspire curious young minds. STEM Lab is packed with 25 exciting STEM activities, perfect for firing up kids' imaginations. Explore and discover beautifully illustrated science activities with an easy to follow guide that will explain how science, technology, engineering and math shape the world around us. A perfect balance between education and fun, STEM Lab teaches young readers through each experiment, describing the science behind it and providing engaging STEM facts. The richly illustrated activities promote further thinking by suggested "Test and Tweak" notes. Encourage young readers to take their projects to the next level, while furthering their understanding of the science behind it. Each activity has its own 'How It Works' section covering STEM principles to help young minds understand answers to their science curiosity, exercising cognitive thinking and problem-solving skills. Learn The Science Behind 25 Amazing Projects Science activities for kids that can be done at home. Leap into the exciting world of STEM where Science, Technology, Engineering and Math combine in 25 fun and easy-to-do projects. STEM Lab teaches young readers how to make impressive insulating gloves, stunning spaghetti towers, amazing automations, and explores many more educational activities. STEM subjects are a crucial part of a child's education. STEM Lab helps kids to practice STEM principles in a fun and engaging manner, while exercising motor skills and cognitive thinking. The four subject areas this book is based on are interrelated, and by combining them new insights, ideas and solutions to problems emerge. STEM Lab will teach you the principles of engineering and the science behind it. This STEM filled activity book is organised into four sections: - Forces and Motion - Liquids and Reactions - Shapes and Structures - Light and Sound STEM Lab combines fun and learning with hand-on activities that engages STEM principles.

Coding Projects in Scratch Jon Woodcock 2019-08-06 A perfect introduction to coding for young minds! This updated step-by-step visual guide teaches children to create their own projects using Scratch 3.0. Suitable for complete beginners, this educational book for kids gives readers a solid understanding of programming. Teach them to create their own projects from scratch, preparing them for more complex programming languages like Python. Techy kids will familiarize themselves with Scratch 3.0 using this beginner's guide to scratch coding. Difficult coding concepts become fun and easy to understand, as budding programmers build their own projects using the latest release of the world's most popular

programming language for beginners. Make a Dino Dance Party or create your own electronic birthday cards for friends and family. Build games, simulations, and mind-bending graphics as you discover the awesome things computer programmers can do with Scratch 3.0. This second edition of Coding Projects in Scratch uses a visual step-by-step approach to split complicated code into manageable, easy-to-digest chunks. Even the most impressive projects become possible. This book is an impressive guide that is perfect for anyone who wants to learn to code. Follow Simple Steps, Improve Your Skills & Share Your Creations! Follow the simple steps to become an expert coder using the latest version of the popular programming language Scratch 3.0 in this new edition. Create mind-bending illusions, crazy animations, and interactive artwork with this amazing collection of Scratch projects. Suitable for beginners and experts alike, this fabulous introduction to programming for kids has everything you need to learn how to code. You'll improve your coding skills and learn to create and customize your own projects, then you can share your games online and challenge friends and family to beat each other's scores! What's inside this kids' coding book? - Simulations, mind-benders, music, and sounds - Algorithms, virtual snow, and interactive features - Different devices, operating systems, programming languages and more Computer coding teaches kids how to think creatively, work collaboratively, and reason systematically, and is quickly becoming a necessary and sought-after skill. DK's computer coding books for kids are full of fun exercises with step-by-step guidance, making them the perfect introductory tools for building vital skills in computer programming. Coding Projects in Scratch is one of three brilliant coding books for kids. Add Coding Games in Scratch and Coding Projects in Python to your collection.

The Sun Seymour Simon 2015-09-01 In this completely updated edition of The Sun featuring beautiful full-color photographs, Seymour Simon presents a fascinating introduction to the star that is the center of our Solar System. Young readers will love exploring the wonders of the sun, from the constant nuclear explosions at its core to the sea of boiling gases that forms its surface. This nonfiction picture book is an excellent choice to share during homeschooling, in particular for children ages 6 to 8. It's a fun way to learn to read and as a supplement for activity books for children. Seymour Simon knows how to explain science to kids and make it fun. He was a teacher for more than twenty years, has written more than 250 books, and has won multiple awards. This book includes an author's note, glossary, and index and supports the Common Core Learning Standards, Next Generation Science Standards, and the Science,

Technology, Engineering, and Math (STEM) standards.

Tech Lab Jack Challoner 2019-10-01 This DK children's book for ages 11-14 is brimming with exciting, educational activities and projects that focus on electronics and technology. Keep your siblings out of your room with a brilliant bedroom alarm, power a propeller motorboat, make a thermoelectric phone charger, build a set of speakers, and construct a crane by following step-by-step instructions and using affordable equipment. Tech Lab will engage budding scientists and engineers as they experiment, invent, trial, and test technology, electronics, and mechanics at home. Simple steps with clear photographs take readers through the stages of each low-cost project, with fact-filled panels to explain the science behind each one, and to fascinate them with real-world examples. With an increasing focus across school curricula on encouraging children to explore STEM subjects (science, technology, engineering, and maths), Tech Lab is the perfect companion for any inquisitive child with an interest in how the worlds of science experiments and technology work, and why.

Circuit Games Klutz Press 2018-01-07 Spark your interest in circuitry! Get ready to be amazed with this electrifying combination of five circuit games to build from scratch. Use actual electronic components to construct a DIY operation game, compete with friends in a "Don't Touch the Wire" race, assemble a quiz show board, and more. Step-by-step instructions teach you how to be a maker to add wires, LEDs, and buzzers for super-charged fun. Comes with: AA battery holders, Popsicle stick, 2 blue LEDs, 3 white LEDs, Paper clip, Craft wire, Coated wire, Copper brads, 2 buzzers, Paper craft game pieces, Metal tweezers

The Star Wars Craft Book Bonnie Burton 2011 Offers full-color illustrations and step-by-step instructions for out-of-this-world crafts featuring characters, locales and objects from the Star Wars universe, including a felt Yoda doll, an R2-D2 knit wool cap, Dagobah terrariums, Hoth snow globe, broken-action-figure Christmas wreath, a Chanukah "droidel," a Chewbacca tissue-box cozy and much more. Original. 50,000 first printing.

Math Maker Lab DK 2021-07-13 Get hands-on with 27 creative projects and experiments that will turn you

into a math whiz. Explore the exciting world of numbers Whether you're a math geek or prefer practical hands-on projects, this ebook combines creativity with calculations. You don't have to be a genius or even need a calculator. Each of the super-fun make-and-do projects in this ebook comes with simple step-by-step photographs and instructions that will help you whip up a cool math creation. Perfect for kids who are interested in STEM (science, technology, engineering, and math), Math Maker Lab features activities that cover many aspects of math, including numbers, measurement, and geometry. You'll combine art and math by drawing impossible objects, create beautiful patterns to make a times-table dream catcher, and perfect the ratio for making refreshing fruit drinks. Throughout the ebook, explanatory boxes show you how the math works and how the skills you've learned can be used in the real world. Math Maker Lab is the perfect for curious kids who are interested in taking the mystery out of math.

Mammoth Science David Macaulay 2020-08-04 David Macaulay's troupe of curious mammoths lead you through the basics of physics, biology, and chemistry in this unconventional and highly original guide to science. From the interior of an atom to the solar system and beyond, the mammoths seek to understand the science! These intrepid science demonstrators will go to incredible lengths to educate and entertain. They wrestle with magnets to understand their powerful force, make mammoth models of different materials explore what gives them mass, and step into a X-ray machine to reveal the bones beneath their woolly exterior.

Attack of the Furball (Star Wars: Jedi Academy #8) Jarrett J. Krosoczka 2019-09-03 The Christina Starspeeder saga continues in this laugh-out-loud epic from author Amy Ignatow and illustrator Jarrett Krosoczka on this New York Times bestselling series, Star Wars: Jedi Academy!

When Father Comes Home Sarah Jung 2020-11-10 From stunning debut talent Sarah Jung comes a heartwarming and beautifully told story about family, planting roots, and standing tall in the face of your fears. June's father is like a goose -- he flies away for long periods of time, which means that June doesn't get to see him very often. So he is happy when Father comes home from his journeys, and happier still when the family plants a tangerine tree together and Father tells June, "Next time I am here, this tree will be bigger, and so will you." Caring for a growing sapling is a great responsibility and June

takes it very seriously. When an accident happens and the tree topples over, June worries his family will change forever. But things that have fallen can be replanted, and sometimes facing our biggest fears reveals our greatest strengths.

Maker Lab Jack Challoner 2018-03-01 This award-winning science book is bubbling over with entertaining and educational experiments for budding scientists to follow at home or in the classroom. Build a soap-powered sailboat, recreate the Solar System out of rubber bands, construct your own colorful kaleidoscope, or make mouthwatering monster marshmallows. Explore the whole range of imaginative activities offered. A foreword by Jack Andraka, a teen award-winning inventor, sets the tone for this spectacular book. Try your hand at 28 different science projects, using simple instructions, everyday ingredients, and stunning photography to guide you from start to finish. Plus fact-filled panels explain the science behind each and every experiment, while contemporary examples give a clear context to better understand important scientific principles. Grab your goggles, put on your lab coat, and let's get started!

OBI-123 Lucasfilm Press 2017-02-14 Read along with Star Wars! One, two, three, four, counting with Star Wars is hardly a chore! From the chosen ONE to a transport of TWENTY, this book is full of numbers aplenty! So, Padawans, prepare, get ready, get set, for a numerical lesson you'll never forget!

Star Wars Build Your Own: Millennium Falcon Star Wars 2018-08-21 Read about and build the fastest ship in the galaxy with this out-of-this-world kit! Join Han and Chewbacca aboard the fastest bucket of bolts in the galaxy. Packed with amazing puzzles and a Millennium Falcon of your own to build, there are hours of Star Wars fun to be had. Work out complete mazes, code words, and puzzles in the uniquely illustrated, full-color activity book. Then press out the pieces to create your very own mini Millennium Falcon model, perfect for re-creating famous scenes from the Star Wars saga. The model is made from a sturdy foam core. Press out the pieces to build the Millennium Falcon—with no glue required!

BB-8 on the Run Drew Daywalt 2017-11 When BB-8 is separated from his master, Poe Dameron, on the lonely desert planet of Jakku, he has no choice but to keep rolling. It's all up to him to get a top-secret map back to the Resistance so they can find Luke Skywalker and save the galaxy from the evil First

Order. It's scary to have a big job when you're just a little droid on your own. But BB-8 isn't alone for long. As he speeds across the sand, BB-8 meets all kinds of strangers who need his help. Should he do good things, as Poe always told him, or will that get in the way of his mission? See how everyone's favorite little astromech droid makes friends and foils enemies in this funny and exciting new Star Wars adventure!

Time Tables Practice Pad Kirsteen Robson 2017-08-30 This handy tear-off pad is bursting with multiplication sums for children to practise their times tables. Kids can refresh, improve and build up confidence in their abilities as they work through the sheets and build up to trickier calculations. Packed with tear-off sheets that include a range of approaches to practise and consolidate arithmetic skills. Compact and easy to pack in a bag, it's great in the school holidays for children to brush up on their numbers before the new term. Gradually increases in difficulty so children can build up confidence before tackling more challenging sums.

Star Wars: Book of Lists Cole Horton 2020-04-14 Star Wars: The Book of Lists takes a fascinating look at the galaxy far, far away through trivia culled from both on-screen and off over the history of the franchise. More than a simple accounting of fan-favorite characters or biggest opening weekends, this book is a compendium of the most compelling facts about the saga and fandom summarized in 100 lists. Find out these fun facts and more with comprehensive lists covering everything you'd want to know about the characters, creatures, ships, planets, and more: Which character has been to the most planets? What are the deadliest creatures in the galaxy? Who shared the most memorable kisses? Which actors have voiced the most characters? What are some of the most surprising cameos? Compiling a galaxy's worth of trivia and information about the Star Wars Universe, *Star Wars: The Book of Lists* is an entertainingly accessible trivia format for both hardcore fans and casual viewers.