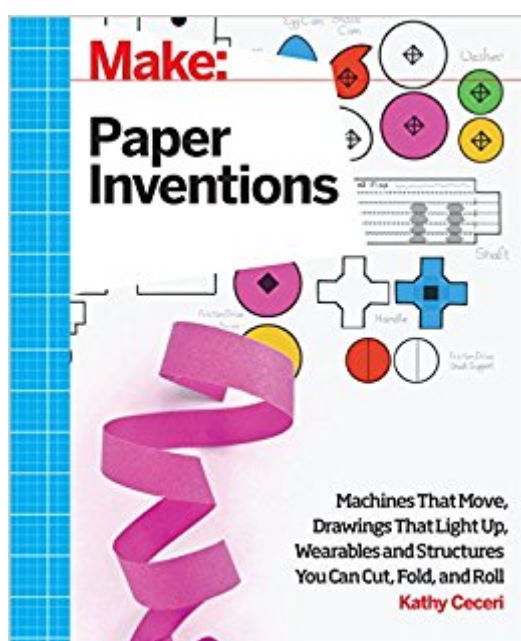


The book was found

# Make: Paper Inventions: Machines That Move, Drawings That Light Up, And Wearables And Structures You Can Cut, Fold, And Roll



## Synopsis

Paper is incredible stuff. It's easy to cut, but incredibly strong. It's disposable, but can last for centuries. It can stand as stiff as a board, pop up like a spring, or float like a leaf. And its invention changed the world forever. Perfect for kids, parents, and educators, Paper Inventions is a project-based book with full color illustrations, step-by-step instructions, supply lists, and templates that allow you to follow along with the book or devise something entirely new. Each chapter features new projects that will challenge and intrigue everyone, from beginning to experienced Makers. In this book, you'll learn to make: A light-up paper cat that shows how switches and sensors work An action origami robot worm Edible rice paper perfect for secret messages A space rover that moves thanks to paper machinery A paper generator that creates electricity when you tap or rub it Heat-activated paper models that fold themselves A geodesic dome big enough to crawl into--from newspaper!

## Book Information

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Age Range: 11 - 17 years

Grade Level: 6 - 12

## Customer Reviews

Three questions for 'Paper Inventions' author Kathy Ceceri Why did you write this book? I am all about low-tech/no-tech Maker projects. They're a helpful onramp to more advanced Making skills, plus they're cheap and quick enough to do at home or in the classroom. While new materials are constantly being developed, the number of amazing projects

Makers are doing with everyday stuff inspired me to come up with a book's worth of projects just using paper, scissors, glue, and a few easy-to-find additions like LEDs and conductive tape. What did this book teach you about paper? I didn't realize how much of the papermaking process takes place at the molecular level. The tiny strands of plant fiber that make up a sheet of paper are held together by a microscopic electrical pull called van der Waals forces. By tinkering with these forces, scientists can control how strong a sheet of paper is or how quick to decompose when its been used, as with toilet paper. Why is paper such a good material for Makers? I focused on paper as a building material because everyone has access to it in a wide variety of forms. You can use it to create very simple designs, but it can also be used to make projects that are very complex and clever. As you'll see in the Engineering section of the book, when you roll paper up, it can support enough weight to build structures big enough to sit inside!

Turn Your Junk Mail Into Art! Many simple projects and techniques can seem difficult the first time you try them. Don't give up, and don't worry if your first try isn't perfect. You can always do better the second time. Keep an eye out for interesting kinds of paper. It doesn't have to be expensive most projects look fine if you use paper reclaimed from old books, wallpaper samples, or even junk mail. If you want your paper invention to last a long time, you may need to ruggedize it. For flat projects, you can laminate it using clear wide packing tape or clear adhesive shelf paper. For three-dimensional shapes, you can spray or brush on sealer (or make your own by thinning white glue with water). Test your method of choice first on a piece of scrap to make sure it doesn't harm your final design!

We write on it. We draw on it. We paint on it. We fold it. We may even tear it into pieces and glue it. But that is just the beginning. What "Make: Paper Inventions: Machines that Move, Drawings that Light Up, and Wearables and Structures You Can Cut, Fold, and Roll" by Kathy Ceceri (Maker Media) highlights is that ordinary paper can be used in an exciting range of high- and low-tech projects that blend science and art. -- Amy Cowen, sciencebuddies.org

With Make: Paper Inventions, Kathy Ceceri has written a real eye opener. She describes a wealth of great projects, many of which take little preparation and few extra materials: After all, everybody has some paper at home. Just the thing for a rainy weekend at home! -- Bernd Grobauer, Geekdad.com

Kathy Ceceri is the author of activity books for kids and families, including Robotics: Discover the Science and Technology of the Future. She helped create the Geek-Mom blog and the book Geek Mom: Projects, Tips, and Adventures for Moms and Their 21st-Century Families and contributed

more than a dozen projects to the Geek Dad series of books. Formerly the Homeschooling Expert at About.com, Kathy presents robots and STEAM programs at schools, museums, libraries, and Maker Faires around the country. She lives with her family in Upstate New York.

My kid likes making anything out of paper/cardboard. This was a Christmas gift and has entertained her for hours.

Good good with nice activities for decent price.

I saw Kathy Ceceri's book, *Make: Paper Inventions*, in a bookstore and picked one up for some kids in my extended family. I plan to get another copy for myself! It caught my eye because I'm an origami enthusiast, creator, and teacher. I'd classify only a few of the projects as origami as such -- Paper Dragon Curve Fractal, Action Origami Robot Worm, Open Weave Paper Link Wristband and Basket. They range from simple "playground" origami to intermediate-level models. If you can fold a fortune teller/cootie-catcher, you won't find these hard to make. But the book has far more than origami: it tells you how to make paper itself, offers techniques to try (quilling, e.g.), and shows you all kinds of very interesting things to make/build out of paper. Excellent photographs and drawings. Very clear, engaging directions and discussions of the science/engineering principles behind the projects. You can see some sample projects at the author's website:

<http://craftsforlearning.com/make.htm> Our next milk carton will go to trying this sort-of-origami project, if only to try out the ingenious

<http://homeschooling.about.com/od/finearts/ss/Recycling-for-Kids-Turn-a-Milk-Carton-Into-a-Coin-Purse.html> I highly recommend it for libraries, families, schools, home schoolers, STEAM events, and origami lovers. K. Reeds, PhD historian of science, independent museum curator, and long-time paperfolder Co-ringleader, Princeton Public Library Origami Group, an affiliate of OrigamiUSA

This is a really fun book. It has several projects in there, some for younger kids, some for kids around 10 or so, but ideas that older kids could build off of. Some of the ideas are just simple paper folding, but some are light up projects, which are fun and simple, but require a little more in supplies. I was really happy about this book. My kids used to subscribe to *Make* magazine, but everything required a 3D printer, or 1000.00 in supplies, so we let that subscription go. This book is more basic, and the supplies are more accessible.

For anyone new to paper manipulation, this book presents what should prove to be new ideas. The ideas behind adding circuitry, light elements, and "self-folding" possibilities to your paper work will excite your kids, and get them thinking about new ways to manipulate paper. For me, however, I was very excited to see what this book had to offer... and found much of it to be what I've already seen and done over my 20 years of teaching Art. Many older - as well as Origami - books that I have contain the same ideas and paper creations. That doesn't make these projects any less fun or engaging for today's child, it's just a repackaging of many ideas that have been floating around for quite some time now, paired with some new innovations. Presenting the book's content as the author has will undoubtedly pull in those teachers more inclined to search for new and different ways to present mathematical and scientific concepts. There's nothing wrong with that whatsoever - far from, in fact. So long as the ideas are presented and grasped, that's the most important thing, and this book will do that for anyone that forgets the value of Art in teaching Math and Science. Quilling has been around for years, as have the Origami concepts here, so for any long-time Art teachers considering this book, you're probably best taking a look at a copy in a library or local bookseller to see if the concepts here are new enough for your uses. Overall, the ideas presented here are bound to grasp the attention of the student patient enough to properly craft the projects here (probably best for 4th grade and up), even if not all the projects are so new.

I think that this book is my favorite of all the MAKE books. The main material used is paper, the projects require tools and supplies that most people already have in their homes, and who knew you could create electricity just by tapping paper? There are many projects in here that parents could do with younger children, like rolling paper to make some very pretty art projects, and projects that older kids could easily do on their own, like the light up paper cat. Every project is laid out with very clear and easy to follow instructions. Beforehand, you are given a list of tools and supplies you will need for the project. At each step, pictures or drawings are frequently present which allows you to track your progress and verify you are proceeding correctly. Along the way MAKE has included little sidebars that give some history on paper and its uses over the centuries, tips and tricks for ensuring the success of your project, how to properly dispose of any leftover materials, and other bits of helpful knowledge. If you're looking for a way to interest a child a math, science, and art without making them feel like it's another school lesson, these projects in this book are perfect. The back of the book has templates for all the projects as well. I've tried a couple of the projects already, and have had success each time. The edible rice paper was rather cool, I have to admit. The end product may not have looked movie worthy, but being able to make an edible message makes one

feel a bit like Q from James Bond. I also created a small 3D art project using folded and rolled paper that came out quite nicely. Craft stores sell frames that are able to accommodate the raised paper, so after framing I was able to give it as a gift. I probably could've found something similar to what I made on Etsy, or had someone there make it for me, but I really enjoyed learning the methods of paper folding and rolling and using my own hands and time to make the gift. This and the other books in the MAKE library are all wonderful gifts for anyone who likes to tinker, build, program, create, or craft. Nothing is presented in a dull, boring, or dry way that would turn someone off halfway through the project. My only complaint about this book is that it is so short! It's only about a third of the length of a typical MAKE book, though I do suppose there's only so much you can offer in the way of projects when it comes to paper. Still, the ideas contained in this book would make it a great gift for art teachers, baby sitters, parents, young artists, grandparents, you name it. People of every age who enjoy different ways to learn and create are the perfect recipient of this book.

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