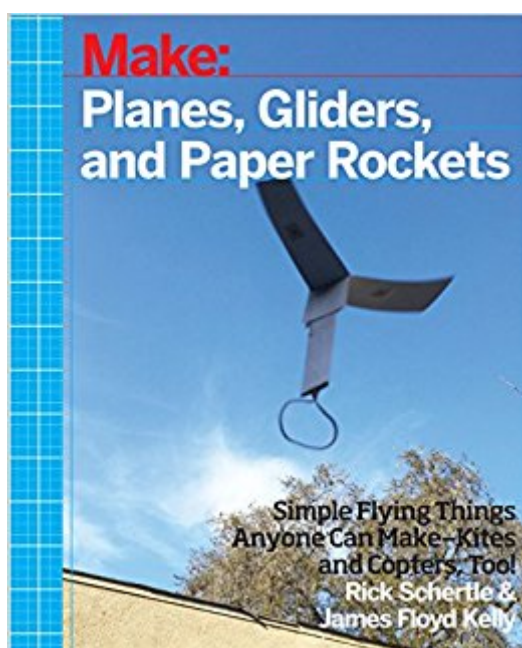


The book was found

# Planes, Gliders And Paper Rockets: Simple Flying Things Anyone Can Make--Kites And Copters, Too!



## Synopsis

Do helicopters need more or less energy to stay in the sky than an airplane? What pushes a rocket to leave the atmosphere? Why can airplanes have smaller motors than helicopters? Help your students learn the answers to these and other questions! Written for educators, homeschoolers, parents--and kids!--this fully illustrated book provides a fun mix of projects, discussion materials, instructions, and subjects for deeper investigation around the basics of homemade flying objects. With the projects in this book, you can spend more time learning and experimenting, and less time planning and preparing. Complete with download links to PDF templates that expand your teaching, this is your one-stop manual for learning about, interacting with, and being curious about airflow, gravity, torque, power, ballistics, pressure, and force. In *Make: Planes, Gliders, and Paper Rockets*, you'll make and experiment with: Paper catapult helicopter--add an LED light for night launches! Pull-string stick helicopter Rubber band airplane Simple sled kite 25-cent quick-build kite Air rockets with a parachute or a glider Foam air rocket Rocket stands Bounce rocket Low- and high-pressure rocket launchers

## Book Information

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Age Range: 11 - 17 years

Grade Level: 4 - 7

## Customer Reviews

Rick Schertle is a master at the craft of teaching middle school in San Jose and a novice maker at

home. His diverse interests include backyard chickens, adventure travel, veggie oil-fueled cars and geocaching - all made more fun with the enthusiastic support of his wife and the crazy antics of his young son and daughter. James is a writer who lives in Atlanta, GA with his wife and two young sons. He has degrees in Industrial Engineering and English and enjoys making things, writing about those things, and training young makers. He has written over 25 books on a variety of subjects from LEGO robotics to Open Source software to building your own CNC machine and 3D printer.

I was hoping for more paper airplane designs and other easy projects. I didn't expect to see that I would need to go to Home Depot to get PVC pipe, dowels, foam pipe insulation and so on.... It would also be SUPER helpful to have a vice grip/bench vice, a drill, coping saw, PVC cutter, and more... While there are some fun projects, I likely won't get around to doing any of them given the supplies needed. This might be fun for teenagers in a science class where they have access to various tools or their teacher has access and could do all the prep work. This just isn't for us; far too advanced for my group of kids (ages 6-10) - they barely even looked at the book. I bought this with a few others that are similar and this is our least favorite.

Really cool ideas. I made one, it didn't fly very well. I originally bought this book so that my two boys could make gliders, but the concepts are too complicated for my 7 and 9 year old.

...WILL SOAR

Good

I wish I had found this book a few years ago when my son was younger. It would have greatly helped established my "Dad Credentials" when he came to me with his imaginative and fun project ideas. I am somewhat handy and can make some basic things, but having Planes, Gliders and Paper Rockets around as a ready reference guide sure would have helped. That said, if you have kids who want to start making, this is a great, fun place to start. Planes, Gliders and Paper Rockets provides several projects from paper helicopters (with optional, but cool, LED lights), Rubber band airplanes, kites, foam air rockets and more. According to the book's preface, this is the first in a series of books from Maker Media and sets a good example for the other books in the series. I'll certainly be on the lookout for more like this. Each project provides some basic discussion starters about the scientific concepts involved in

each project and then moves into a careful and well illustrated step-by-step guide for building and then flying the project. All the photos are clear and well-captioned. Templates are included when useful and a complete supplies list are provided for each project. Some projects can also be purchased from Make as complete kits, ready to be assembled. Planes, Gliders and Paper Rockets would be a great book for kids and adults to work through together, over the course of several weeks or months -- growing in skills with each project. Older kids could put together many of these projects on their own, if they were looking for a place to start their own maker adventures. Of course, a book like this is could also be used in any educational environment to discuss a wide variety of engineering, aeronautical and scientific concepts. Hands-on activities are a great way of clarifying and solidifying new concepts by applying theories as soon as possible after they are learned. If you're looking to get away from your computer for a while and enjoy some time making things with your hands instead of just your mind, Planes, Gliders and Paper Rockets is a great place to start.

This book brings back a lot of fond memories. I spent many happy childhood hours making paper airplanes, paper helicopters and paper waterbombs (NOT covered in the book!). I've since used some of these skills and designs with children and grandchildren. So I know that they work and can provide some much-needed fun. The projects in this book mostly are a bit more sophisticated than I was able to create on my own as a kid in elementary school. So I recommend that you don't just hand this book to a kid and say "Go have fun!" Make it a parent-child or grandparent-grandchild activity to duplicate some of the projects in this book and, if necessary, make modifications to suit what materials you have on hand. (My thanks to O'Reilly Media for providing a review copy.)

Poor

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