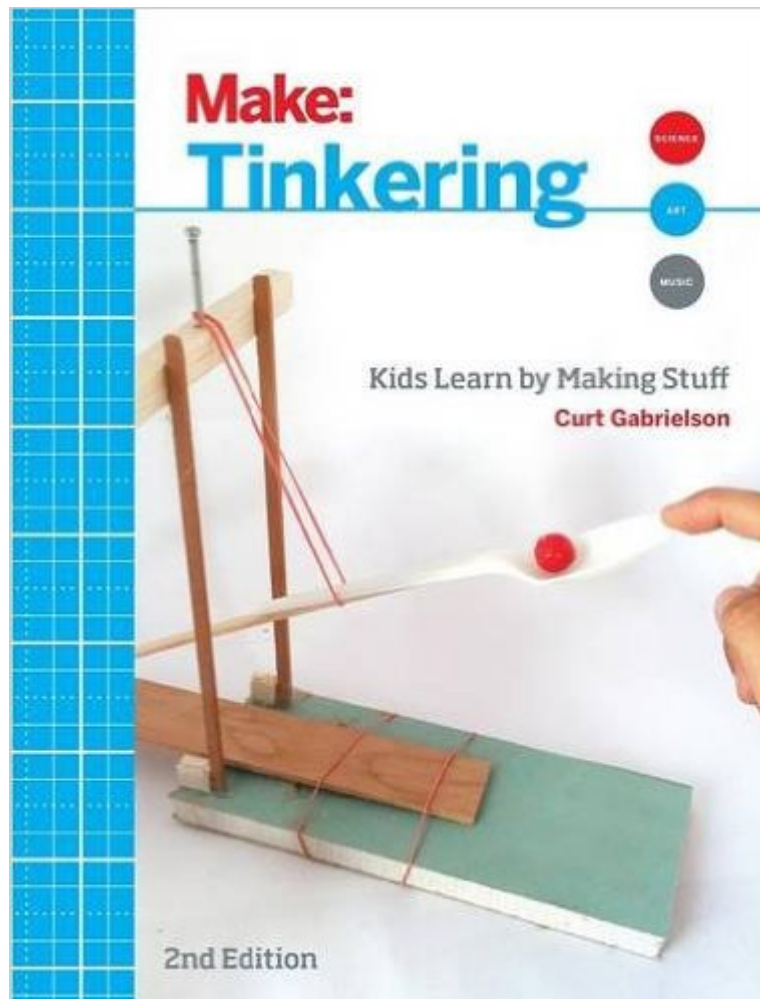


The book was found

# Tinkering: Kids Learn By Making Stuff (Make)



## Synopsis

How can you consistently pull off hands-on tinkering with kids? How do you deal with questions that you can't answer? How do you know if tinkering kids are learning anything or not? Is there a line between fooling around with real stuff and learning? The idea of learning through tinkering is not so radical. From the dawn of time, whenever humanity has wanted to know more, we have achieved it most effectively by getting our hands dirty and making careful observations of real stuff. **Make: Tinkering (Kids Learn by Making Stuff)** lets you discover how, why--and even what it is--to tinker and tinker well. Author Curt Gabrielson draws on more than 20 years of experience doing hands-on science to facilitate tinkering: learning science while fooling around with real things. This book shows you how to make: A drum set from plastic bottles, tape, and shrink-wrapMagnetic toys that dance, sway, and amazeCatapults, ball launchers, and table-top basketballA battery-powered magic wand and a steadiness game (don't touch the sides!)Chemical reactions with household itemsModels of bones and tendons that work like real arms and anklesSpin art machine and a hovercraft from a paper plate!Lifelong learners hungry for their next genuine experience

## Book Information

Series: Make

Paperback: 214 pages

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Product Dimensions: 7 x 0.4 x 9.2 inches

Shipping Weight: 13.4 ounces (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars [See all reviews](#) (9 customer reviews)

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[Education & Reference > Science Studies > Electricity & Electronics](#) #28 in [Books > Children's](#)

[Books > Science, Nature & How It Works > How Things Work](#)

Age Range: 9 and up

Grade Level: 3 - 7

## Customer Reviews

Wonderful resource for anyone interested in getting familiar with tinkering as an educational tool.

The book is written for beginners and, although it caters for educators, it was very useful and interesting for me as a parent.

What a great book! Fantastic activities with cheap and easy to obtain materials. These projects can probably be built almost anywhere on Earth (that has a small market nearby) - the materials are so simple and universal. And the learning they provide is awesome! Instructions were super clear, and there are these thoughtful essays on tinkering and inquiry based learning scattered throughout the book that are brilliant and inspirational. This is more than a book with a collection of tinkering activities, its really a book about how to create a tinkering space where, as the authors says, kids and adults come "to learn to learn." It's also a book that his backed by decades of real work with kids, and insightful antidotes from kids tinkering are sprinkled throughout the book. Great illustrations and photos. Some here have commented on the quality of the illustrations, I think they might have updated the photos in the new edition, so perhaps make sure you get the 2015 edition (if your concerned about image quality).

Quality of the print is horrible, interior book design very cheapo, and tons of typos. I expected more from Make magazine. But the ideas are good.

A great book for parents to use with kids. A little advanced for my very smart eight-year-old to use alone.

My grandson asked me for this for Christmas, and he and his father have had a great deal of fun with it.

First of all, the contents of the book look awesome. There are tons of projects with a good range of difficulty. I believe it would be a great book for any kid (or adult!) who likes 'tinkering' and building random projects. There are very detailed descriptions of the projects to explain how everything works, and how it relates to the real world. One thing to note, is that I was expecting a bit more pictures, and less words. If purchasing for a younger child, just know that they will likely need some adult assistance with the projects. The one negative comment I have is in the quality of the print. The book I received is completely misshapen. The Right side edge is roughly a quarter of an inch larger than the left side. The printing on EVERY page is crooked, including the cover. It's like it was printed in the basement with consumer level equipment. Or the pages were cut out by a child. That's the

only reason I've deducted 1 star from my review.... Although I'm still not convinced it's worth subtracting an entire star. But definitely worth noting. Would this stop me from purchasing the book? Not at all. It's the quality of the content that is really important. But for the price... I'd expect better quality from the publisher.

Short

Great book with excellent pictures and ideas.

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