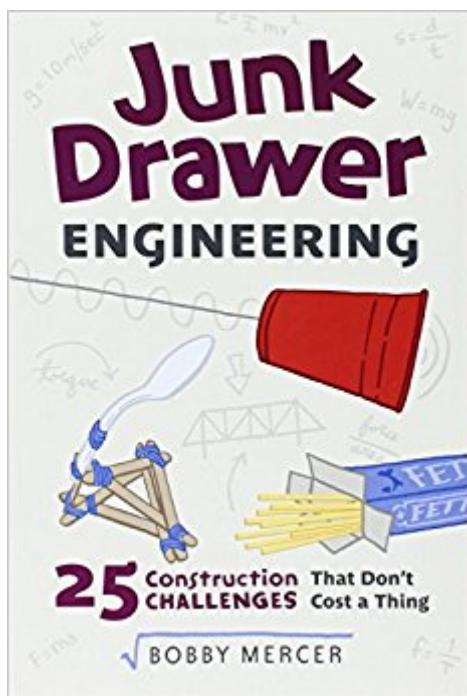


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# Junk Drawer Engineering: 25 Construction Challenges That Don't Cost A Thing (Junk Drawer Science)



## Synopsis

There's no need for expensive, high-tech materials to test your engineering skills—you probably have all you need in your home junk drawer. Each hands-on project in this book will challenge you to come up with a unique solution to a specific design problem. Construct a Pasta Bridge strong enough to support a heavy load, using only dry linguini and glue. Build a Marble Roller Coaster from recycled cardboard tubes, in which the marble jumps a track to land safely at its final destination. Or design an Egg Catch device to safely capture a free-falling egg. Test yourself or use them for friendly competitions—who can come up with the best solution?

These 25 open-ended design challenges can be performed for just pennies . . . or less. Each project has a suggested materials list, step-by-step instructions with illustrations for one possible solution, and suggestions on how to adapt each challenge for different ages and skill levels. Educators and parents will find this title a handy resource to teach children problem-solving skills and applied physics, all while having a lot of fun.

## Book Information

Series: Junk Drawer Science

Paperback: 224 pages

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Average Customer Review: 5.0 out of 5 stars 1 customer review

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Age Range: 9 and up

Grade Level: 4 and up

## Customer Reviews

The compilation and suggested modifications for youngsters with different backgrounds

and skill sets make this particularly welcome for science teachers as well as young learners... Hours of fun for STEM-inclined kids, parents, caregivers, and teachers. *Kirkus Reviews*"...this is a solid collection of STEM activities for tweens. Science teachers will want to investigate." *School Library Journal*"A fun, hands-on resource for anyone who wants to inspire STEM-minded kids." *Publishers Weekly*"A fun, hands-on resource for anyone who wants to inspire STEM-minded kids." *Booklist*"It's perfect for kids to learn and let their creative side show." *Test Try Results*

Bobby Mercer has been sharing the fun of science for more than two decades as a high school physics teacher. He is the author of *Junk Drawer Physics*, *Junk Drawer Chemistry*, and *The Flying Machine Book*.

My son (11 yr) was so excited to start the challenges in this book. The supplies are things we actually have, so it was easy and fun for him. He didn't even realize how much learning he was doing.

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