



Junk Drawer Physics: 50 Awesome Experiments That Don't Cost a Thing (Junk Drawer Science)

Bobby Mercer



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There's no need for expensive, high-tech lab equipment to perform physics experiments—you probably have all you need in your home junk drawer. Turn a plastic cup into a pinhole camera using waxed paper, a rubber band, and a thumbtack. Build a swinging wave machine using a series of washers suspended on strings from a yardstick. Use a cork, string, and water-filled plastic bottle to create a simple accelerometer. Or construct your own planetarium from an empty potato chip canister, construction paper, scissors, and a pin. Physics teacher Bobby Mercer provides readers with more than 50 great hands-on experiments that can be performed for just pennies . . . or less. Each project has a materials list, detailed step-by-step instructions with illustrations, and a brief explanation of the scientific principle being demonstrated. Junk Drawer Physics also includes sidebars of fascinating physics facts: did you know the Eiffel Tower is six inches taller in summer than in winter because its steel structure expands in the heat? Educators and parents will find this title a handy resource to teach children about physics topics that include magnetism, electricity, force, motion, light, energy, sound, and more, and have fun at the same time. Bobby Mercer has been a high school physics teacher for over two decades. He is the author of *The Flying Machine Book*, *The Racecar Book*, and *Smash It! Crash It! Launch It!* and lives with his family outside of Asheville, North Carolina.



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