



# **The Racecar Book: Build and Race Mousetrap Cars, Dragsters, Tri-Can Haulers & More (Science in Motion)**

*Bobby Mercer*

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You may not be old enough to drive, but that doesn't mean you can't satisfy your need for speed. Author and physics teacher Bobby Mercer shows how to use mousetraps, rubber bands, chemical reactions, gravity, and air pressure to power fast-moving vehicles. Each of the 25 easy-to-build racecars is constructed for little or no cost using recycled and repurposed materials. Retrofit a toy car with a model plane propeller to make an air-powered Prop Car. Turn a potato chip can, a rubber band, and weights into a Chip-Can Dancer. Or use an effervescent tablet in a small canister as an impressive rocket engine for a Mini Pop Car. Every project in *The Racecar Book* contains a materials list and detailed step-by-step instructions with photos for easy assembly. Mercer also includes explanations of the science behind each racecar, including concepts such as friction, Newton's laws of motion, kinetic and potential energy, and more. These projects are perfect for science fairs or design competitions, or just having fun!

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