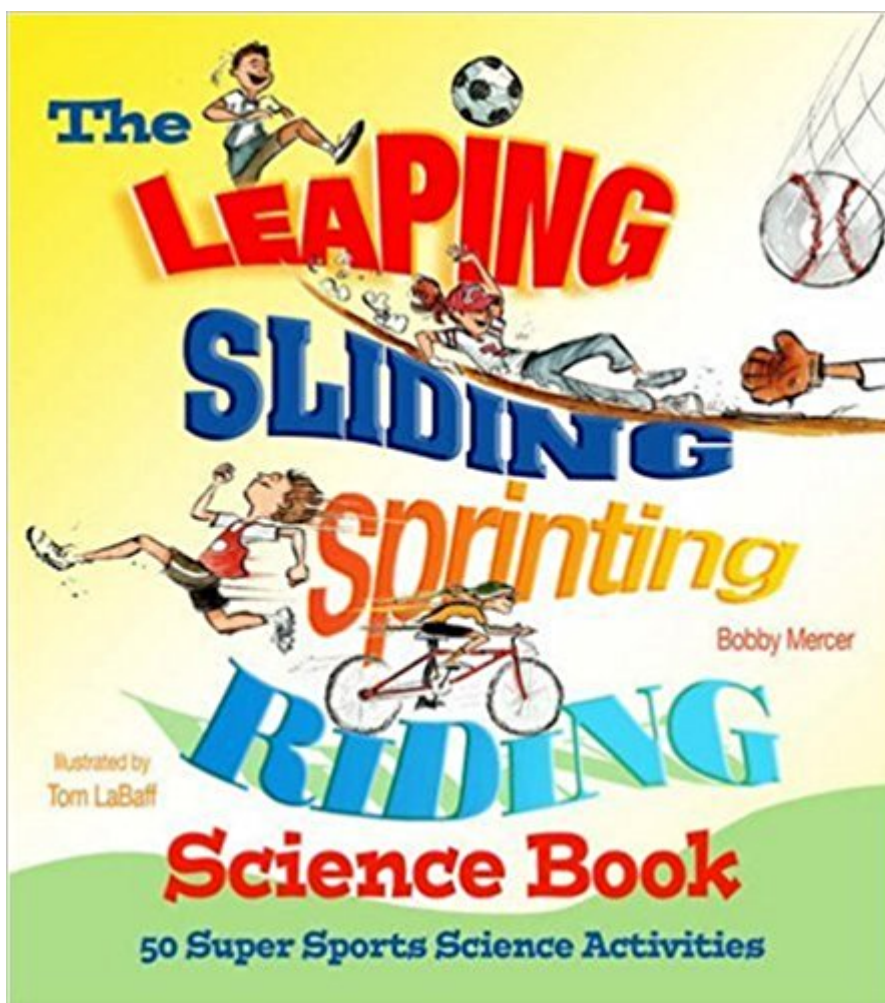


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# The Leaping, Sliding, Sprinting, Riding Science Book: 50 Super Sports Science Activities



## Synopsis

From the swoosh of a thrown football to the force of a tennis ball smashing against the racquet, all sports involve motion and action - and that means all sports involve science. This fully illustrated entry into Lark's much-praised science series encourages kids to look keenly at the wide world of sports to uncover its underlying scientific principles. And the activities feel just like fun and games! Kids will barely realise they're learning hardcore science as they challenge friends to a reverse bike race, see how to throw basketball passes that no one can steal, and discover what's behind the infamous spitball and knuckleball.

## Book Information

Hardcover: 80 pages

Publisher: Lark Books (January 28, 2007)

Language: English

ISBN-10: 1579907857

ASIN: B007PM0X62

Product Dimensions: 9.1 x 8.2 x 0.5 inches

Shipping Weight: 1.1 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,608,457 in Books (See Top 100 in Books) #22 in Books > Sports & Outdoors > Miscellaneous > Sports Science #26916 in Books > Children's Books > Activities, Crafts & Games > Activity Books #34486 in Books > Children's Books > Science, Nature & How It Works

Age Range: 8 and up

Grade Level: 3 and up

## Customer Reviews

Grade 5-8 "Mercer uses sports moves and activities to teach physics and other science concepts. He explains numerous complex terms, including density, biomechanics, the Magnus effect, friction, and laminar flow. Many of the activities require kids to be outside with bikes, Frisbees, hockey sticks, baseball bats, etc. Others require objects such as a bungee cord, a stopwatch, a protractor, or cans of soup. Some experiments are easily done at home. The range is from simple (freezing sneakers to compare traction) to complex (teaching oneself to do an ollie on a skateboard). Each activity has a list of equipment and instructions for performing it, followed by a section that explains the science behind it. The lively and colorful illustrations make the book seem as if it is for

elementary school kids, but the activities and science concepts discussed are more appropriate for middle schoolers. Motivated readers will find a lot of fun projects to experiment with, but this book will probably get the most use from science educators, who will find a wealth of inspiration and ideas.â “Marcia Kochel, Olson Middle School, Bloomington, MN Copyright Â© Reed Business Information, a division of Reed Elsevier Inc. All rights reserved.

Mercer puts his experience as a physics teacher and a sports coach to good use in this compendium of science activities. Readers can determine the best angle for throwing or hitting a ball far and test how more air pressure in a basketball, volleyball, or soccer ball affects its bounce. Each activity is presented on a single-page or a double-page spread, including a list of materials, step-by-step instructions, a discussion of the science behind it all, and an appealing ink-and-watercolor illustration. A lengthy glossary is appended. Aimed at a younger audience than Robert Gardner's *Science Projects about the Physics of Sports* (2000), this will appeal to active kids looking for science fair ideas, and what they learn may also be helpful on the playing fields. Carolyn Phelan Copyright Â© American Library Association. All rights reserved

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