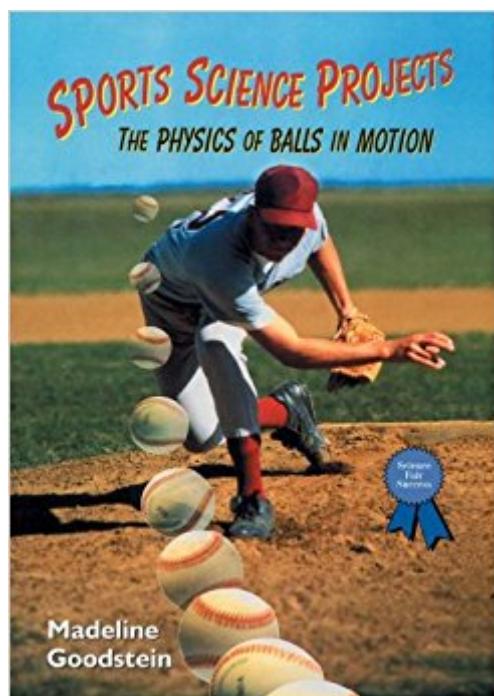


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Sports Science Projects: The Physics Of Balls In Motion (Science Fair Success)



Synopsis

How can sports be scientific? Author Madeline Goodstein explains in Sports Science Projects: The Physics of Balls in Motion. Baseballs, golf balls, and footballs are just some of the balls compared and examined. Why do baseballs have stitches? Why does a tennis ball have fuzz? How is a Ping-Pong ball changed if you fill its center? By experimenting with the projects, students will find out how much science governs the games they play. They will also discover they have been following the rules of science all along! This book is filled with excellent ideas for science fair projects.

Book Information

Series: Science Fair Success

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Customer Reviews

Grade 6-10-This well-organized, clearly written series title will get readers thinking about why a baseball has stitches, why a tennis ball has fuzz, and how a Ping-Pong ball will change if its center is filled. Exciting experiments demonstrate the differences among the types of balls used in sports and the relationship between design and performance. Many of the experiments are followed by excellent ideas for science-fair projects. Black-and-white diagrams and drawings illustrate the concepts discussed. This valuable, practical resource encourages exploration and experimentation. Paul Bielich, Northwestern High School, Detroit, MI Copyright 2000 Reed Business Information, Inc. --This text refers to an out of print or unavailable edition of this title.

Goodstein provides nearly 40 projects involving sports balls that demonstrate the principles of

physics. She describes the composition of each ball (baseball, basketball, football, golf, rubber, and tennis), its rebound rating, the effects of temperature on its bounce, and several other properties. She also explains the Magnus effect and the Bernoulli principle. Most experiments are easy to perform and use readily available equipment. Appropriate cautions are noted when demonstrations require drilling, sawing, or fire. The most appealing parts of the book are the explanations of how physical principles affect sporting techniques--for example, the reason for the dimples on a golf ball. This book in the Science Fair Success series should find an audience among sports enthusiasts and reluctant science fair participants. A bibliography and a list of Web sites are appended. Kay Weisman --This text refers to an out of print or unavailable edition of this title.

This is a great book for home school science. I found it referenced on the web site sciencebuddies.org which is an awesome site for projects for middle school science. The descriptions are clear for the science projects, and there are suggestions in each section a motivated/curious student can use to take each topic further. I wish there had been more relation to mathematics equations, but there is plenty you can cover using measurement alone and certainly enough to cover dependent, independent variables, controls and scientific method. (Or whatever they are calling it these days.) For the price it is a great reference for a sports-minded science-minded kid.

Lots and lots of experiments in this science book. It contains black and white illustrations. I especially liked the ideas for projects and further investigations at the end of some of the experiments. Recommended for the 4th grade through the 10th grade class. Teachers should read this one, also.

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