



The Science of Track Field Volume 2 Data Graphs for Science Lab

By M. Schottenbauer

CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 52 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. Learn about the Biophysics of Track and Field! Joint Angles and Range of Motion, Electrical Signals of the Heart and Muscles, Breathing Patterns and Lung Capacity, Blood Pressure and Heart Rate! In this book, readers gain access to real scientific data pertaining to track and field, promoting graph-reading, comparison, contrast, and calculation skills. Graphs show data from the following scientific instruments: Goniometer EKG EMG Sensor Spirometer Blood Pressure and Heart Rate Sensor This book allows readers to analyze real data without purchasing expensive lab equipment. Graphs contain data on the biophysics of track and field activities, including joint angles positions, electrical activity of the heart (EKG) and muscles (EMG), breathing rate, lung volume, blood pressure, and pulse. Track and field activities examined include running, jumping, and throwing. Analyses include hurdles, discus, hammer, javelin, and shot put. These data can be used for lesson plans by teachers and parents. Note: These data were collected using lightweight track and field equipment, and with constrained physical exertion, due to limitations of lab space, equipment, and safety considerations. Most throws were limited to 14 feet...



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