

1135-B1-125

Tetyana Berezovski* (tberezov@sju.edu), Saint Joseph's University, Department of Mathematics, 5600 City Ave, Philadelphia, PA 19131. *Defining SPORTHEMATICS: Characterizing Task-Design for Sports and Mathematics Education.*

SPORTHEMATICS is the study of the relationship between mathematics and sports. It refers to a broader cluster of ideas ranging from mathematics of scheduling tournaments to sports and mathematics education. The goal of SPORTHEMATICS is to contribute both to the understanding of sports and the understanding of mathematics, along with underlining the importance of the connections between the two. In this study, the author generalizes the existing body of research and focuses the discussion on sports and mathematics education. The presented study is based on the author's six years of engagement in the development of sport based mathematical models, as well as the design of sports-related tasks appropriate to students ranging from the middle school to the undergraduate level. (Received July 29, 2017)