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Reza D Noubary* (rnoubary@bloomu.edu), Department of Mathematics, Bloomsburg University, Bloomsburg, PA 17815. *Analysis of a Table Tennis Game: A Teaching Tool.*

A game of table tennis is analyzed using elementary concepts of calculus, probability, and linear algebra. The analysis demonstrates different modeling approaches and makes a comparison between the results under the new and the old rules of the game. It also illustrates steps involved in mathematical modeling and points out the possible expansion of it. Some hints regarding the use of materials for teaching is also included. (Received September 18, 2009)