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Kimberly J Presser* (kjpres@ship.edu), Shippensburg University, Department of Mathematics, Shippensburg, PA 17257. *JavaScript Simulations for a Probability Course for Middle and High School Teachers*. Preliminary report.

When teaching probability concepts to students, it is important to be able to simulate chance experiments. Such simulations serve to motivate student interest in the topic, demonstrate long-run behavior of phenomenon and illuminate chance situations that are difficult to resolve theoretically. This presentation will discuss how JavaScript was used for simulating probabilistic concepts in a course for in-service middle and high school teachers. Additionally, we want to present a 4-tiered structure which was used for the simulation assignments which allowed students with a wide range of computing abilities to use the JavaScript simulations for exploration. (Received September 10, 2007)