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Deborah E. Seacrest* (d_seacrest@umwestern.edu). *Mathematical Games in Multiple Levels of Education*. Preliminary report.

At the January 2011 Joint Meetings, I reported on the use of educational mathematical games with upper elementary school students. In the spring of 2012, I created an undergraduate general education topics course that used many of the same mathematical games. I taught some of the same topics, as well as some that were more advanced than the elementary school students studied. I previously remarked upon the similarities and differences within the elementary school groups; the comparisons between elementary school students and undergraduate students were perhaps even more interesting and enlightening.

Although many topics were covered in class, this talk will focus on the Towers of Hanoi, One-Pile Nim, and the dice games Pig and Hog. The fact that students in both elementary school and undergraduate classes enjoyed and learned from these games indicates that they may be especially appropriate in classrooms with diverse groups of learners. (Received September 23, 2012)