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Using Dynamic Web Tools Across the Early Undergraduate Mathematics Curriculum.

The presenter has developed and utilized a wide array of webMathematica tools for the first two years of undergraduate mathematics courses. These tools have been utilized for a number of years in several courses at a very large community college in Kansas City and also at other institutions. This talk will highlight both the tools and the results in incorporating them for interactive, dynamic learning and exploration. The presenter also utilizes WolframAlpha and Wolfram's Demonstrations project in his courses and will relate that to their precursor, webMathematica. The work has been distinguished in receiving the ICTCM Award for Excellence and Innovation in the Utilization of Technology in Collegiate Mathematics. (Received August 21, 2011)