

1125-H5-2372 **D Brian Walton*** (waltondb@jmu.edu), 60 Bluestone Drive, MSC 1911, Harrisonburg, VA
22807. *Web-based apps for practice, scaffolding and conceptualization in calculus.*

Over the last few years, the author has developed a collection of web-based apps to facilitate student learning in a variety of ways. Some apps provide instant, randomized practice in basic skills (e.g., differentiation and antidifferentiation). Other apps illustrate core concepts (e.g., the definition of a limit and the definition of the definite integral). Most recently, the author has worked to create apps that scaffold mathematical reasoning (e.g., constrain algebra manipulations to follow rules). The author will describe the basic framework on which these tools have been built and demonstrate how they might be used. (Received September 20, 2016)