

Meeting: 1003, Atlanta, Georgia, MAA CP B1, MAA Session on My Favorite Demo: Innovative Strategies for Mathematics Instructors, I

1003-B1-200 **Denise J LeGrand*** (djlegrand@ualr.edu), Mathematics Dept, 2801 S University Ave, Little Rock, AR 72204. *Web Based Learning and Assessment: Using MapleTA.*

Placing a mathematics or science course online poses many challenges. One such challenge is the presentation of symbols in mathematical online material. Another is the matter of online assessment such as placing homework, testing and practice material on the web. The online grading of complicated mathematical formulas, equations and expressions was somewhat of a task until Maple TA became available. MapleTA stands out among the best web-based tools for learning and assessment because of its capability to present complicated mathematics expressions and its ability to parse mathematics input provided by students. MapleTA is a powerful tool suitable for science, mathematics and engineering courses. It includes a question bank editor, an assignment editor, a grade book feature, and system utilities. In this presentation I will demonstrate how MapleTA, a web based learning and assessment tool, is used to overcome these challenges and provide a rich learning environment to students. (Received August 26, 2004)