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Appropriately Using WeBWorK, WebAssign and Maple in Calculus I and II. Preliminary report.

We report on our NSF CCLI grant "Adapting WeBWorK, internet-based gateway exams and Maple PowerTools to introduce the appropriate use of technology in the first two semesters of calculus". Instructors in our department use a combination of traditional, written homework and either WeBWorK or WebAssign. In addition, we have developed a series of Maple worksheets that simultaneously reinforce calculus concepts and provide students with basic Maple skills that they can carry to other courses. Web-based gateway exams are currently under development. Over all, our goal has been to strike a balance between traditional calculus pedagogy and technology-driven calculus pedagogy. (Received September 16, 2008)