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Incorporating Technology into Students' Projects.

Every day, mathematics teachers are faced with challenges and opportunities in making mathematics more accessible, meaningful, and applicable for our students while maintaining a major goal: to develop mathematical maturity by gradual introduction and development of concepts, and careful and rigorous treatment of definitions and proofs. I found students' projects an excellent tool that meets this goal and enables students to show their knowledge, as well as creativity, deeper understanding, and cooperative work in problem solving. I use students' projects that incorporate technology in courses from pre-calculus to upper division mathematics courses including courses for future Elementary and High School teachers. I would like to present three types of students' projects: group projects done in Geometry class using The Geometer's Sketchpad software, in Elementary statistics class using Excel and Power Point Presentation, and in the Bridge to Abstract Mathematics class using Power Point Presentation. As an illustration of how projects are conducted and how they are evaluated I will include a part of my syllabus for Geometry class. In my presentation, I will provide my students' comments to explain the effect of the project on students attitudes toward mathematics. (Received October 04, 2000)