

1077-VI-2534 **Nathan C Carter*** (ncarter@bentley.edu), Bentley University, 175 Forest St., Waltham, MA 02452, and **Kenneth G Monks**. *Lurch, a free math word processor that can check your work.*

Lurch is a free math word processor that aims to check the steps of students' work, from simple arithmetic to complex proofs. Unlike the computational software most of us are familiar with, *Lurch* does no work on the student's behalf, but instead provides frequent and immediate feedback on each step of mathematical work the student includes in a document. This talk will showcase the vast improvements in the software's capabilities (particularly the user interface) over the past year, discuss where the project is going next, and show its potential for transforming the way students learn from homework. Supported in part by NSF DUE grant #0736644. (Received September 22, 2011)