

1096-D1-1126 **Kate Overmoyer*** (kovermoyer@clarion.edu). *Writing Assignments in an Introduction to Proofs Course*. Preliminary report.

When teaching Introduction to Proofs, I found myself using simple definitions (such as; even/odd integers, divides, and prime numbers) to demonstrate and practice the main proof techniques (direct, by contradiction, and by contrapositive). Although these examples are effective in teaching the techniques, they do not effectively relate the new concepts to those most recently studied, for example, material from the Calculus sequence. In an attempt to bridge this gap, I included a series of writing assignments as part of the syllabus. For example, for one assignment the students wrote a “manual” for solving a mathematical problem and in another they examined proofs from Precalculus and Calculus. In this presentation, I will discuss these assignments as well as how successful I feel they were in improving students’ writing, understanding of proofs, and comprehension of previously learned concepts. (Received September 13, 2013)