

1096-D1-2132 **Ockle E Johnson*** (ojohnson@keene.edu), Mathematics Department, Keene State College,
Keene, NH 03435. *Integrating the Elements of an Introductory Proof Course.*

Many introductory proof texts and courses begin with logic and sets. This semester we began with a proof I once introduced to my daughter's first grade class. As we continued with elementary number theory proofs, we were soon forced to consider logic and logical equivalences. An axiomatic development of the natural numbers and the integers introduced the inherent inductive nature of the natural numbers before dealing with proof by induction, reinforced the basic properties of the operations, and led to a consideration of sets and relations. In this talk we will discuss the strengths and weaknesses of this approach and the lessons learned. (Received September 17, 2013)