

1056-N1-1475 **Leah Bridgers*** (BridgeLC@oneonta.edu), Dept. of Math, CS and Stat, Fitzelle Hall, SUNY
Oneonta, Oneonta, NY 13820. *Dihedral Groups for Preservice Elementary Teachers.*

Many preservice elementary teachers complete mathematics content courses as part of their undergraduate program. In this talk, we will discuss an activity used in a mathematics content course for preservice elementary teachers that serves several purposes: (1) It introduces students to dihedral groups; (2) It helps to reinforce students' understanding of closure, identity, inverses, associativity and noncommutativity; and (3) It helps students to make connections between geometric ways of thinking and algebraic properties of many of the number systems with which they are familiar. (Received September 21, 2009)