

1023-N5-1422 **Maria G Fung*** (fungm@wou.edu), Mathematics Department, 345 North Monmouth Avenue,
Western Oregon University, Monmouth, OR 97361. *Mathematical Explorations as a Gateway to
High-school Content Mastery: a Number Theory Approach*. Preliminary report.

In this talk we will discuss a variety of pedagogical techniques used in an advanced mathematics elective course for pre-service high school teachers. We will specifically focus on the selection of exploratory activities that connect number-theoretic ideas to high school mathematics content, on appropriate cooperative learning techniques, on reflective writing assignments, and on project ideas. (Received September 26, 2006)