

1086-VQ-2961 **Craig M. Johnson*** (johnsonc@marywood.edu), Marywood University, 2300 Adams Ave.,
Scranton, PA 18509. *Using Music to Display Patterns in Geometry and Number Theory.*

Music scores can be used to showcase the use of geometric transformations (translations, reflections, rotations) in musical composition. The pitch classes from which notes are selected also provides an introduction to modular arithmetic and algebra. I distribute selected measures from works by Beethoven, Bach, and Brahms, as well as more modern composers, to students for their analysis and exploration. The questions used attempt to guide the student into identifying some of these concepts on their own. (Received September 26, 2012)