

1125-I1-421

Simei Tong* (tongs@uwec.edu), Department of Mathematics, University of Wisconsin-Eau Claire, 105 Garfield Ave, Eau Claire, WI 54702. *Rotation and Symmetry in Mathematical Quilt Design*. Preliminary report.

Squares, triangles, and circles are building blocks for mathematical quilts. With basic knowledge of rotation, symmetry, and color combinations, quilts could present some mathematical concepts in a simple and colorful way. This presentation will explain some standard rotations used in quilting design, such as log cabin method or triangular and circular paper piecing method. Some projects will be presented during the presentation. The ideas of projects could be used in a math service course or faculty/student research projects for undergraduates in math majors and/or art & design majors. (Received September 01, 2016)