

1077-B1-2937      **Margaret E Kepner\*** ([renpek1010@yahoo.com](mailto:renpek1010@yahoo.com)), 3716 Livingston Street NW, Washington, DC  
20015. *A visual representation of the decomposition of the integers into prime factors.*

In the work Prime Goose Chase, a traditional quilt pattern is used as the organizing structure for a visual table of the prime factorization of the integers from 1 to 256. The step-by-step development of this piece is explored, with an emphasis on how key elements have been represented through the use of shape, color, lines, and other visual attributes. I explore the interaction of mathematical concepts and artistic considerations on the choices made during the design process. Various alternative presentations of the same subject matter are considered. (Received September 23, 2011)