AMS American Mathematical Society

MATHEMATICAL IMAGERY

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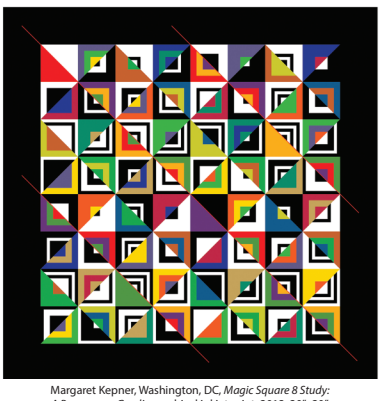
A mathematican, like a painter or poet, is a maker of patterns. If his patterns are more permanent than theirs, it is because they are made with ideas.

—G. H. Hardy, A Mathematician's Apology

The connection between mathematics and art goes back thousands of years. Mathematics has been used in the design of Gothic cathedrals, Rose windows, oriental rugs, mosaics and tilings. Geometric forms were fundamental to the cubists and many abstract expressionists, and award-winning sculptors have used topology as the basis for their pieces. Dutch artist M.C. Escher represented infinity, Möbius bands, tessellations, deformations, reflections, Platonic solids, spirals, symmetry, and the hyperbolic plane in his works.

Mathematicians and artists continue to create stunning works in all media and to explore the visualization of mathematics--origami, computer-generated landscapes, tessellations, fractals, anamorphic art, and more.



Margaret Kepner, Washington, DC, *Magic Square 8 Study: A Breeze over Gwalior*, archival inkjet print, 2013, 20"x20".

"Basset Hound, opus 212," by Robert J. Lang
One uncut square of kozo paper with Inclusions, 8", composed 1988, folded 2012

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