

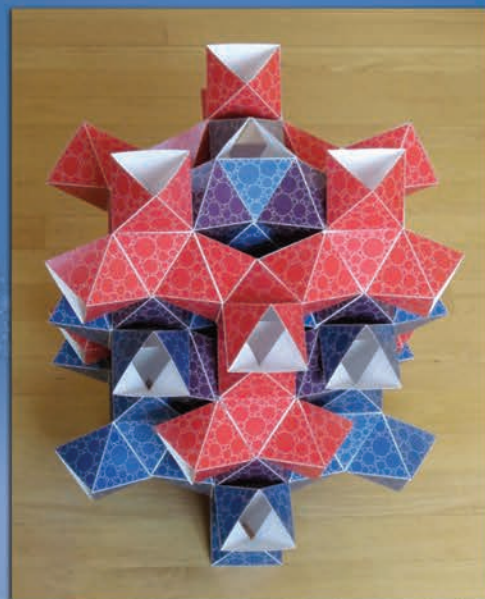
# MATHEMATICAL IMAGERY



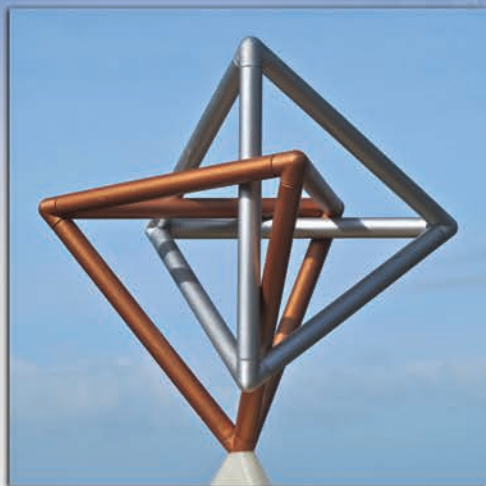
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The connection between mathematics and art goes back thousands of years. Mathematics has been used in the design of Gothic cathedrals, Rose windows, Oriental rugs, mosaics and tilings. Geometric forms were fundamental to the cubists and many abstract 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.



"A Fractal Circle Pattern on the  $\{3,12\}$  Polyhedron,"  
by Doug Dunham, *University of Minnesota - Duluth*



"Linked Tetra Frames," by Carlo Séquin,  
*University of California, Berkeley*



"Highway Dragon Tiling," by Larry Riddle,  
*Agnes Scott College, Decatur, GA*