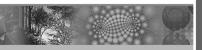
# MATHEMATICAL **IMAGERY**



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# 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

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

mathematician, 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. Hardu

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#### Thomas Hull: The mathematics of origami



This is a version of the Ow-Hull "Five Interse should be a familiar sight to those who frequ through geometry textbooks. Read about the

--- Thomas Hull. Photograph by Nancy Rose

#### Anne M. Burns :: Gallery of "Mathscapes"



Computers make it possible for me to "see" gallery of "Mathscapes" were created using a

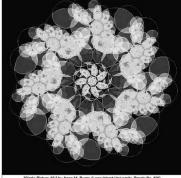
- Anne M. Burns

#### otices of the American Mathematical Society :: Cover Art



People have long been fascinated with repeat symmetries. The discovery of hyperbolic geo

greater wealth of patterns, some popularized by D series of works. The cover illustration on this issue of the Notices portrays a pattern which is symmetric under a group generated by two Möbius transformations. These are not distancepreserving, but they do preserve angles between curves and they map circles to circles. See Double Cusp Group by David J. Wright in Notices of the American Mathematical Society (December 2004, p. 1322).





Dear Peter.

Here's one of the e-postcards from the site.

Nancy

# GALLERIES & MUSEUMS:::::::::

Bridges: Mathematical Connections in Art, Music, and

M.C. Escher: the Official Website Images and Mathematics, MathArchives

The Institute for Figuring Kalendar, by Herwig Hause

The KnotPlot Site Mathematical Imagery by Jos Leys Mathematics Museum (Japan)

Visual Mathematics Journal

# ARTICLES & RESOURCES::::::::::::

Art & Music, MathArchives

Geometry in Art & Architecture, by Paul Calter (Dartmouth College)

Harmony and Proportion, by John Boyd-Brent International Society of the Arts, Mathematics and

Journal of Mathematics and the Arts Mathematics and Art, the April 2003 Feature Column by Joe Malkevitch

Maths and Art: the whistlestop tour, by Lewis Dartnell Mathematics and Art. (The theme for Mathematics Awareness Month in 2003)

Viewpoints: Mathematics and Art, by Annalisa Crannell (Franklin & Marshall College) and Marc Frantz (Indiana

www.ams.org/mathimagery