

1035-N1-1964 **Elizabeth C Rogers*** (brogers@piedmont.edu), Piedmont college, P.O. Box 10, Demorest, GA 30535. *Geometry, Perspective and Proportion in Art: A Traveler's Guide.*

Whether you are looking for lesson plans to encourage interest in mathematics or ideas for a talk at the local civic club, geometry, perspective and proportion in art is a great place to start. People travel the globe to visit historic sites and museums, but seldom recognize the mathematics involved in the creation of the decorations and paintings. From the stained glass window of the United Nations building in New York to the giant golf ball-like structure at Epcot Center, art brings mathematics to life and turns abstract concepts into concrete reality. From the little known Huacas of the Moche civilization and the Chimu city of Chan Chan in Peru, travel north to Tulum and Chichen Itza in Mexico and explore geometric shapes, translations and reflections. Venture further from home to consider the geometry of St. Mark's Basilica in Venice and the north rose window Of Notre Dame de Paris, or view Raphael's "School of Athens" in the Vatican and Leonardo da Vinci's "Last Supper" in Milan with a "singular perspective." Indian and Southeast Asian temples exhibit fractal structure. Oriental art throughout the centuries has exhibited intricate use of mathematics. What begins as a journey often leads one to look at art and decoration closer to home with a new vision. (Received September 21, 2007)