Cornell University
K-12 Education and Outreach, Mathematics Department

MATH 5080
Mathematics for Secondary School Teachers
406 Malott Hall
October 2, 2010
9:00 am – 2:30 pm

8:45-9:00   **Welcome** (juice and bagels provided)

9:00-9:15   **Introductions**

9:15-11:30   **The Mathematics of Perspective Art**
Annalisa Crannell (Franklin & Marshall College)
Learn how to blend Math & Art in your classes. How do we fit a three-dimensional world onto a two-dimensional canvas? Answering this question will change the way you look at the world, literally: we'll learn where to stand as we view a painting so it pops off that two-dimensional canvas seemingly out into our three-dimensional space. In this workshop, we'll explore the mathematics behind perspective paintings, which starts with simple rules and will lead us into really lovely, really tricky puzzles. Why do artists use vanishing points? What's the difference between 1-point and 3-point perspective? Why don't your vacation pictures look as good as the mountains you photographed? Dust off those old similar triangles, and get ready to put them to new use in looking at art!

11:30-12:00 **Lunch** (provided)

12:00-2:20   **The Mathematics of Perspective Art (continued)**

2:20-2:30   **Wrap Up**

Contact Mary Ann Huntley by Wednesday, Sept. 29th if you plan to attend.

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