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**Cora Neal\*** ([cora.neal@sonoma.edu](mailto:cora.neal@sonoma.edu)), 1801 East Cotati Avenue, Math Dept, Darwin 114, Rohnert Park, CA 94928. *Using Humming to Teach Experimental Design in Elementary Statistics.*

This interactive presentation will demonstrate an activity used in an Elementary Statistics course to instigate a discussion about principles of experimental design. Students who participate in this badly designed experiment disagree with the instructor's erroneous conclusions. Their arguments against the stated outcome provide a basis for discussing how an experiment should be properly conducted. The principles of experimental design are a natural outcropping of this conversation.

I have used this experiment in dozens of Elementary Statistics classes, usually toward the beginning of the course. It provides a common reference point for many of the concepts that arise throughout the semester, and it's a lot of fun. You will experience this activity from the perspective of a student and I will share some of the unexpected comments from my students and humorous leading questions I ask to guide the discussion if necessary. Please come ready to hum. (Received September 16, 2007)