Math 5 PROJECTS: (up to 20% of grade)

* Bulk of work done Fri Nov 14 → Wed Dec 3

* Presentations 6-8 pm Wed Dec 3rd: 10 mins (e.g., 5 slides of powerpoint, or of demo)

* You may work in groups of 2 or 3 (max), but level of detail should grow accordingly.

* Please choose a topic by Mon Nov 17 and post to Aural Postings as a paragraph.

Suggested Topics [e.g., see Spring 07 website]:

- Analyze a musical instrument in depth using our tools, present background reading or modes, features, timbre, etc.

- Essay about history or technology of an instrument, ancient or modern, or musical style & role of composition.

- Design & build (or demonstrate) a new instrument, explain why produces the sounds it does. E.g., a 'formant machine'...

- Analyze reverberation & echoes in a room, modify the room enough to change this & compare, explain.

- Find bizarre acoustical echo environment & analyze.

- Computer-generated music as in Log Ch.9, or mathematical analysis of a composition.

- Measure sensitivity of ear to pitch, timing, aural illusions, binaural beats, start of timbre.

There are lots of resources on our website & in our resource books.

Your project should use our lecture material, but take you beyond it. Be creative!