

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

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

* Presentations 6-8pm Wed Dec 3rd : 10 mins (eg 5 slides of powerpoint, or of dem

* 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 Postin as a paragraph.

Suggested topics [eg see Spring '07 website] or come up with own & discuss w/me.

- analyse a musical instrument in depth using our tools, present background reading on modes, features, timbre, etc.
- essay about history or technology of an instrument. ancient or modern, or musical style & rules of composition.
- design & build (& demonstrate) a new instrument, explain why produces the sounds it does. Eg. a 'formant machine'...
- Analyse reverberation & echoes in a room, modify the room enough to change this & compare, explain.
- Find bizarre acoustical echo environment & analyse.
- Computer-generated music as in Loy 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 reserve books.

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