

# Group Project

Due: Tuesday 9 December 2025

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Physics 1320

Music & Physics

Prof. Baker & Olness

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This counts for 3 quiz grades. You may work in groups of 2 or 3.

*(Projects are graded on a scale of 1-3, counting for 1-3 quizzes)*

After you find your topic, FIRST email Prof. Olness for an OK.

## Possible Topics:

Find a way to illustrate different musical temperaments

Experiment with conical pipes, w and w/o mouthpieces;

Video of a strobe on various instruments.

Experiments with a Online synthesizer.

Laser-light demo.

Digital video of a wolf-tone with explanation.

Take a violin; cover the f-hole; add weight (clay) to parts: find spectrum

Find the range of a trumpet; can you throw farther left or right handed :)

Build a set of chimes from steel pipes: w & w/o notches.

For a woodwind; what is relation to note and open pipe length?

Build a low frequency resonator.

Happy birthday w/ 2 harmonies to illustrate masking.

java applet to illustrate key property.

... and all the others I've not thought of.