

# hw 8 - a musical drawing

We have now built a device that plays tunes and a device that controls the pitch of a buzzer through the photosensor. Now I would like you to build a Theremin like device where the pitch of the buzzer is controlled by a line drawing.



For this you will need a very soft pencil—at least a 2B. A line drawn with a soft pencil can act as a variable resistor (a potentiometer).

[See MAKE presents: The Resistor](#)

If you already have code from the light sensor theremin we built in class, you can use that with little or no modification.

## Grading:

circuit works: 50XP

‘coolness’ of line drawing: up to 30XP

ability to play a recognizable tune: 20XP

demo in class!

