



A quartz watch is the opposite of a Lifesaver™ sparking in your mouth! Isn't that cool?

You'll have to go into the closet for this - but just until you see the light.

Beakman Place

experiment #1

WHAT YOU NEED:

Mirror - roll of Cryst-O-Mint flavor Lifesaver™ candy -

closet - towel

WHAT TO DO:

Go into the closet and stuff the towel under the door so no light at all gets in. Look around for several minutes to adjust your eyes to the darkness. Pop one of the Lifesavers into your mouth. Look into the mirror and crunch down. You'll see your mouth light up with a white flash. Cool, huh?

WHAT IS GOING ON:

You just created piezo electricity (pee-AY-zo). Here's what it is: If you put physical energy into some crystals, they change it into electrical energy. The reverse is true, too. If you put electrical energy into these crystals, you get physical energy back out. That's how a quartz crystal watch works. A battery puts electrical energy into the quartz crystal, which vibrates at controlled speeds – such as 30,000 vibrations a second. A computer chip then counts the vibrations to figure out the time. Every 30,000 vibrations equals 1 second.

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