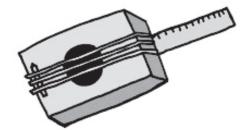
Homemade Harmony

Create your own shoebox guitar!

Items you need:

- Shoe box with lid
- 4-8 rubberbands the same length but different widths
- Piece of board 3 inches wide and a little longer than the shoe box (can use a pencil instead)
- Construction paper, markers, paint, glitter, glue, etc. to decorate the shoe box
- Scissors
- Ruler (optional)

Instructions:



- 1. Decorate your shoe boxes with paper, paint and glitter.
- 2. Wrap rubber bands around the shoe boxes the long way. Be sure there is space between the rubber bands.
- 3. Pluck the rubber bands and listen to the sounds. How are sounds made? By vibrations.
- 4. Place the wooden board across the top of the box under the rubber bands.
- 5. Pluck the rubber bands again. How is the sound different?
- 6. Part of the difference has to do with resonance—or the vibrating of the board and box as the rubber bands vibrate.
- 7. Change rubber bands—you can make different pitches using different widths and lengths of rubber bands.
- 8. A ruler can be glued to the back of your shoebox to use as a "guitar neck."

