CURIOSITY AT HOME

RUBBER BAND BOX GUITAR



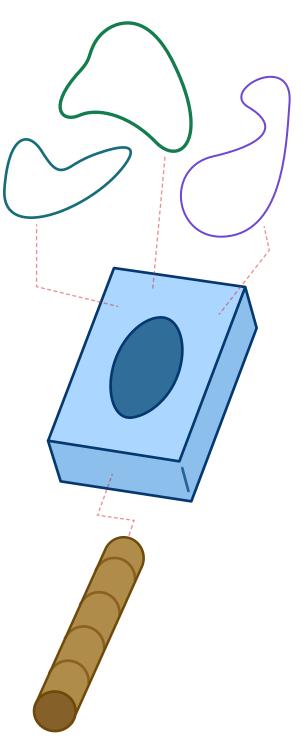
Playing music is a fun and creative way to express ourselves and important to our overall development. You can make your own rubber band box guitar using just a few common materials.

MATERIALS

- Empty rectangular tissue box
- Rubber bands of various thicknesses and lengths
- Tape
- **Scissors**
- Empty paper towel roll (optional)
- Clean empty food containers, such as coffee containers or soup cans (optional)
- Markers and decorations (optional)

PROCEDURE

- Remove any plastic left in the tissue box opening.
- Place the rubber bands around the tissue box so that they lay over the opening.
- (Optional to look more like a guitar) Cut one-inch slits around one end of the paper towel roll and fold out. Tape that end to one of the short sides of the tissue box to make a handle.
- (Optional) Use markers and decorations to customize your instrument.
- Strum away!













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EXPLORE MORE

Now try some of these variations to your musical instrument:

- · Try making guitars with different materials, such as clean plastic food containers, coffee containers or thicker cardboard boxes.
- · Try using rubber bands of different lengths and thicknesses.
- Cover the opening of your container. Make the opening smaller or bigger. Put openings in different areas.
- · Place a pencil between the rubber bands and the container to form a bridge.
- · Twist a toothpick or paperclip around the rubber bands to make them tighter.
- · What do you notice about how the sounds change when you use these variations?

WHAT'S HAPPENING?

Just like a real guitar, the sound is made by the vibration of the rubber band that creates a sound wave. If you simply hold a rubber band between two fingers and strum it, the sound is very soft. Once we put the rubber band around the tissue box, the vibrations create a louder sound as the sound waves resonate, or bounce around, the inside of the box.











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3-5 GRADE EXPLORATION

- · What did you notice about the sounds that each rubber band makes on your guitar? How does the sound of a thin rubber band compare to the sound of a wide rubber band?
- · Pitch is how high or low a sound is. Can you order the rubber bands on your guitar in order from highest pitch to lowest pitch?
- Can you make guitars that sound very different?
- What other instruments can you make?
- · Offer some of your instruments to family members and see if everyone can play together. Start a band and play for your neighbors!









