

**Featured Project:**

## Krazy Kazoos!

Music is all around us, in everything we do. And with this easy Maker Minute, you can create a musical instrument of your own. Better yet, make one for everyone in your family and make some beautiful music together!



**Materials Needed:**

- Empty paper towel roll
- Scissors
- Wax paper
- Rubber band
- Pencil, with a sharp point
- Makers/paint to decorate.

 **Time to Make:** 30 minutes to decorate, 5 minutes to assemble, days to explore.

**Instructions:**

1. Decorate your paper towel roll with markers or paint (this step is optional). Allow time to dry before continuing.
2. Cut a square piece of wax paper which is large enough to completely cover the end of the paper towel roll.
3. Secure the wax paper to the end of the paper towel roll with the rubber band. Make sure the wax paper is pulled tight.
4. Use the sharp pencil to poke four holes in the tube. These holes can be anywhere.
5. Place open end of kazoo up to your mouth and hum. Cover and uncover the holes and listen to what happens.

**What's happening?**

As you hum into the kazoo, the sound waves of your voice travel down the tube – some bounce off the sides of the tube and some escape through the holes you punched out. The rest of the sound waves hit the wax paper, causing it to vibrate. Since wax paper is light and thin, it vibrates very quickly, changing the sound of your voice. Real kazoos also use a membrane - located down the centre tower of the instrument - that's similar to wax paper. As an experiment, try exchanging the wax paper with aluminum foil or regular paper. How would you describe the new sound?

Source: National Geographic Kids: Make this! (2019)

**What is Maker Minute?**

Maker Minute is our way of bringing the SDG Library MakerLab to your home! Each week, we'll release a cool activity or experiment that you can do using items from your home. You can share your progress and finished products on our social media pages:

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**We can't wait to see what you'll make next!**

