ACTIVITY 1

Some instruments make sound by plucking, or pulling, on a string. Others make noise with a little help from your voice. Can you guess what kind of instruments we're going to create in our first activity?

LET'S MAKE



WHAT YOU'LL NEED

INCLUDED







RUBBER BANDS

WAXED PAPER

CARDBOARD TUBES



NOT INCLUDED

PENCIL





You've made a string instrument – except your strings are rubber bands! The rubber bands vibrate over the hole and **amplify** the sound. Guitars, violins, harps, and cellos all work in a similar way.

Amplify means to make bigger.

STEP 5

Now grab the other half of the tube you cut, take one piece of waxed paper, and place it over one end of the tube.



Secure it with a rubber band. Make sure the surface of the waxed paper is tight over the hole!

STEP 7

Using a sharp pencil or tack, poke a hole in the waxed paper. It doesn't need to be big. An adult might need to help you with this part.

STEP 8

Hold the noncovered end of the tube up to your mouth and talk or sing into the tube. You've made your own kazoo! If you have time, decorate the outside of your kazoo.

The hole in the waxed paper lets the paper vibrate, or move, when air from your mouth pushes it. This makes the sounds you are hearing.



THINK ABOUT IT

With this activity, you were able to make two different sounds with the rubber band and tube. Can you make a third sound that's different from the other two?

In this activity, you learned about the words *pluck* and *amplify*. Think about the meaning for each one. Can you think of an example and a non-example for each one of when you would use that word? Why does changing the tightness of the rubber band change the sound that you hear?