

New Year's Noise Maker

Celebrate the new year with the fun DIY noise maker!

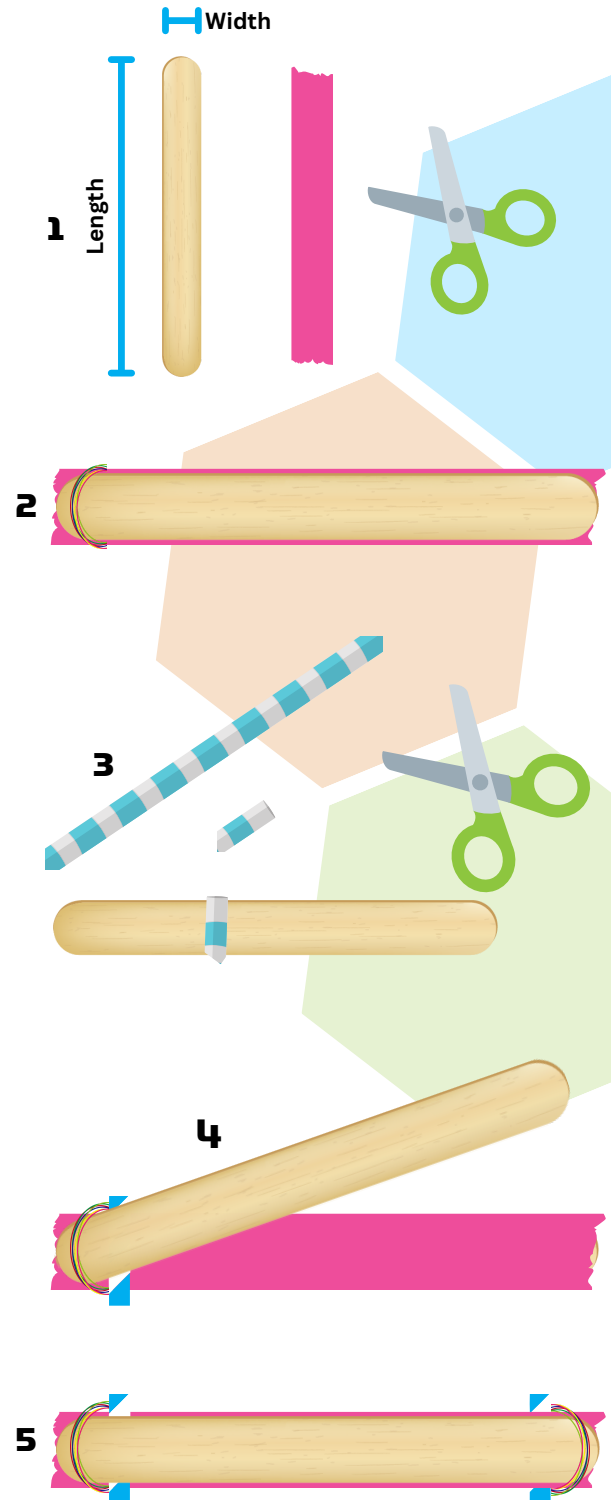


Materials:

- 2 Craft Sticks
- Paper
- 1 Disposable Straw
- 2 Rubber Bands
- Scissors

Procedure:

1. Cut your paper so you have a strip that is the same length (long side) and width (short side) as the craft sticks.
2. Layer your craft sticks and paper so they resemble a stick and paper sandwich. Then, wrap a rubber band around one end. Make sure the rubber band is tight.
3. Cut the straw to get two pieces whose length is the same as the craft stick's width.
4. You may need a partner's help for this part. Open the sticks and slide one of the straw pieces in between the sticks, with the paper on the bottom. Slide it all the way to the rubber band.
5. Then, slide the other straw piece to the middle making sure the paper is on the top now. Wrap the other rubber band around the open end, then slide your middle straw to the end you just closed. You have completed your build! Now, just blow air in between the sticks and hear what happens.



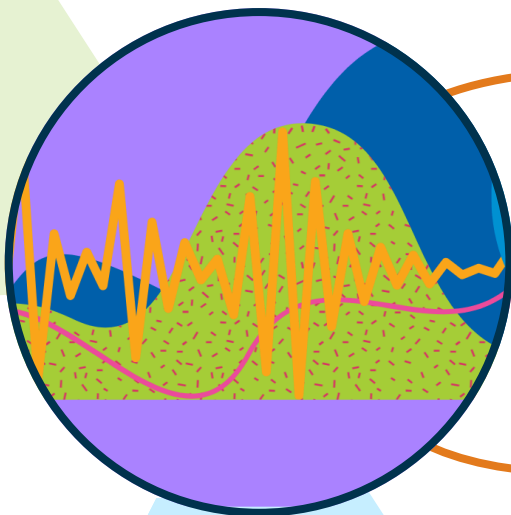
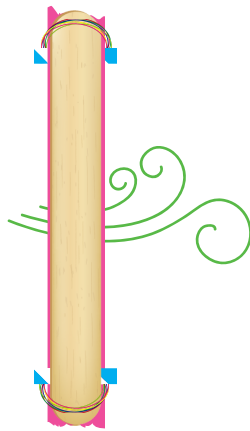
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WHAT'S HAPPENING?

Sound waves cannot be seen and unlike light waves, they need a medium through which to travel (like air!). There are all kinds of sounds! High and low sounds, soft or loud sounds, soothing sounds, harsh sounds, are all different, but all sounds begin with a vibration.



When something vibrates it gives off sounds. Sometimes the vibration can be seen, but other times it cannot. When you blow air between the sticks, it causes the paper to vibrate. As the paper vibrates, the sound waves carry through the air to your ears and everyone else's!



DID YOU KNOW?

An **acoustician** is someone who studies mechanical waves, like vibrations and sound, in different materials. If you liked exploring this activity, maybe acoustics is for you!