

# Funnel Horn

## Best for Ages

6+

## Workspace

Flat indoor surface

## Is electricity required?

No

## Description

Create your own horn or trumpet using materials found in your garage. This DIY funnel horn isn't a typical brass instrument but it will make some interesting sounds!

## Materials

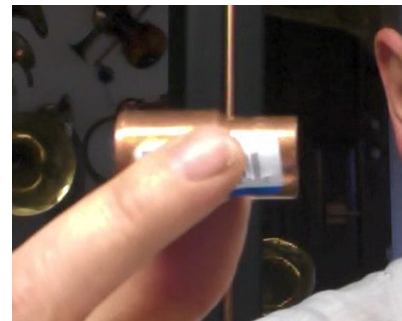
- 1 small brass pipe fitting,  $\frac{1}{2}$  inch to  $\frac{3}{4}$  inch converter
- Approximately 6' of garden hose without the fittings
- 1 large funnel
- Duct Tape
- Scissors

## Concepts Explored

- Sound
- Vibrations

## What to Do

1. Cut the fittings off an old garden hose. The garden hose should be approximately 6' long. Exact measurements are not necessary.
2. Use duct tape to attach the brass fitting to one end of the garden hose. Make sure the wider part is facing away from the hose.
3. On the other end of the hose, use duct tape to attach the funnel to the garden hose. Be sure the small end of the funnel is attached to the garden hose.
4. Blow into the brass fitting using a brass instrument technique. For more information on this, please watch our companion [video](#) about the Funnel Horn. The proper playing technique is shown there.
5. Be patient! It will take some practice to get the technique correct. Experiment with various ways of holding and moving the horn. What sounds are you able to make?



# Funnel Horn

## Troubleshooting Tips

- Funnels can be purchased at most stores with a hardware section.
- Using an older or worn out garden hose is a good idea. Cut the hose to capture the best section.
- Make sure the duct tape creates a tight seal. Open sections or gaps can release the air which prevents the sound from fully forming.
- Be sure to test at each step! This can help avoid taking the entire project apart.



How does the brass mouthpiece help make the sounds?

How does the sound change without the funnel?

Why do you think the hose is necessary?

## What is Happening?

- **Sounds** are heard when vibrations reach your ears and stimulate the nerves inside. These nerves then send electrical signals to your brain and you hear a sound.
- **Vibrations** are created from the way you buzz your lips and blow air into the mouthpiece. The vibrations travel through the hose and out the funnel end. The funnel helps to amplify the sound.

## Taking it Forward

- Make some other DIY instruments. Can you form an entire DIY instrument band? Which DIY instrument sounds are the most enjoyable to you?
- If you like this activity you may also like these other [Amazeum You](#) activities:

PVC Didgeridoo

Balloon Saxophone