

# Lemon Electricity

Find a juicy lemon. Push one copper and one zinc nail into it. Touch both nails with your tongue at the same time. You will feel a tingle from the flow of current in the lemon "battery"

Draw a picture of your favorite Gee Whiz exhibit!

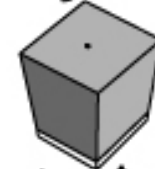
## Make a Pinhole Camera



- Find a small cardboard box that does not let light through. Use a pair of scissors to cut out one side of the box.



- Tape a piece of tracing paper over the cutout side of the box. Make sure that the tracing paper is kept as smooth as possible.



- Make a pinhole in the side of the box opposite the tracing paper. Point the pinhole at a window. Move toward the window until you see its image on the tracing paper.

### How it works:

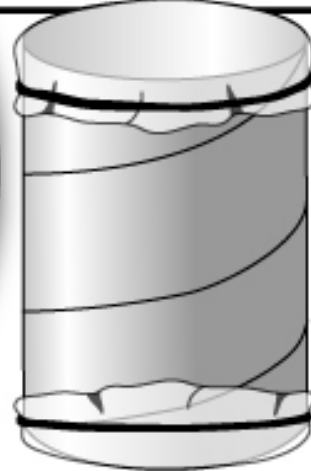
Light rays in air do not bend or curve; they always appear to travel in straight lines. Rays of light from the window enter the pinhole and hit the tracing paper. The light rays from the bottom and the top of the window cross over as they pass through the hole, so the image appears upside down.

## Make a Drum

- Roll a strong sheet of cardboard into a tube. Make sure the cardboard overlaps so that it can be taped together.
- Cut a circle larger than the end of your tube out of a clean plastic shopping bag. Use rubber bands to attach it as tightly as possible over one end of the tube.
- Cut a cardboard circle the same size. Cut a hole in the middle of it. Use rubber bands to attach it over the other end of the tube.

### How it works:

Tapping the drumhead pushes sound waves in the bottom of the drum. It also forces rings of air out through the hole.



## PIZZA FRACTIONS

- Trace around a plate on construction paper to make two circles. Decorate both circles like a pizza and cut them out.
- Fold 1 pizza exactly in half. Cut along the fold to make 2 halves.
- Repeat step 2 for the second pizza. Now fold each half exactly in half and cut along the folds to make 2 quarters.
- How many ways can you fit your 6 pizza slices together to make a whole pizza?

## BRAINTEASERS

- THE SUM OF THE FIRST FIVE ODD NUMBERS. AN ODD TWO DIGIT NUMBER. WHO AM I?
- I WAS DIVIDED BY 9 AND WHEN 8 WAS SUBTRACTED, I WAS CUT DOWN TO THE SIZE OF JUST 1. WHO AM I?