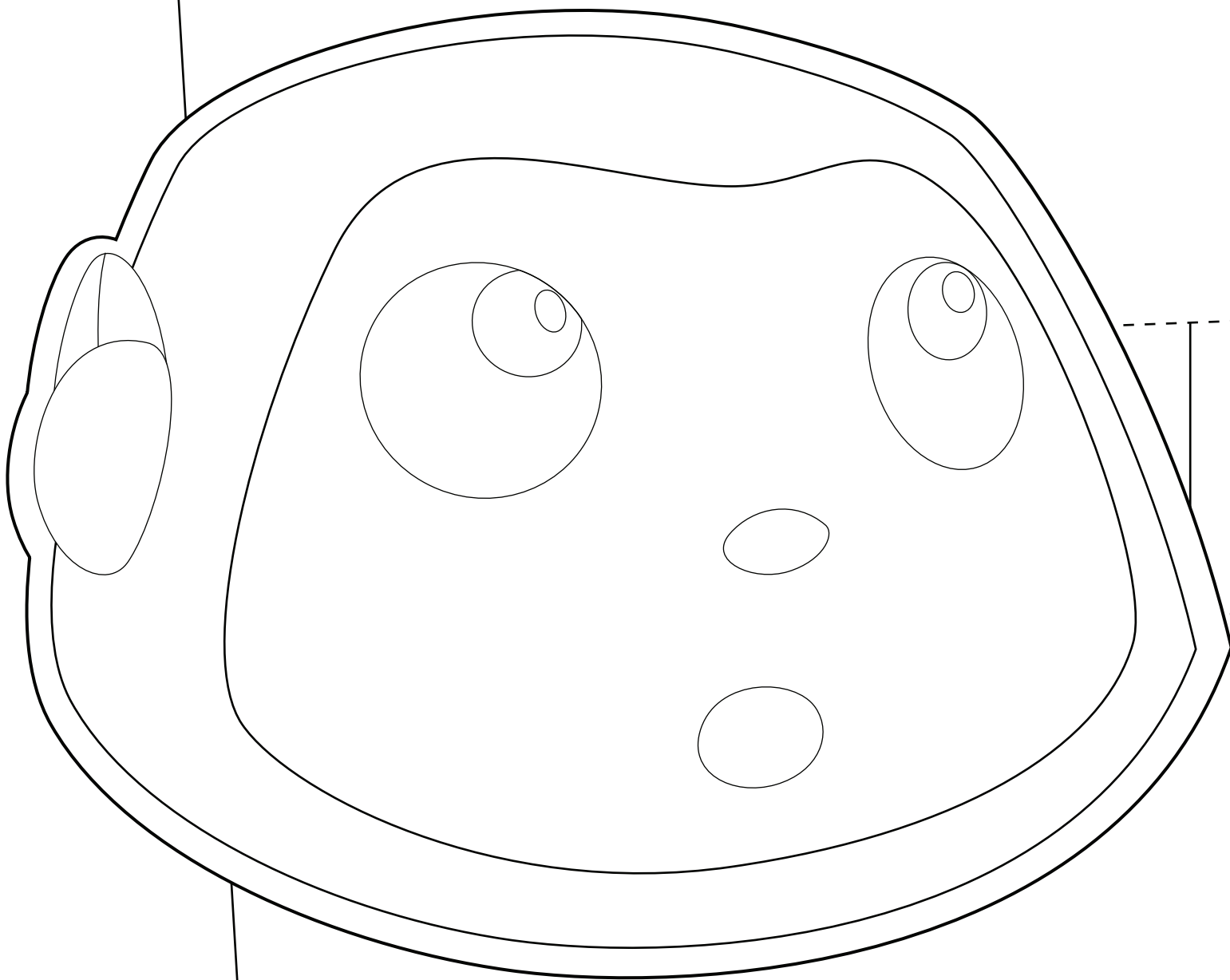
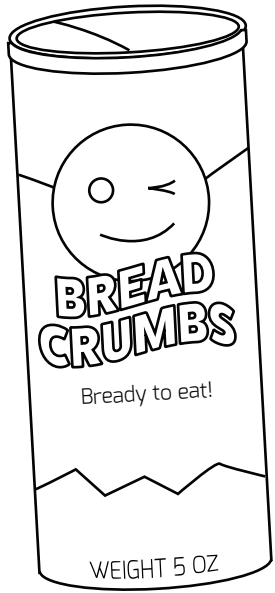


THE ROAD TO DAMASCUS



STEM ACTIVITY



WHAT YOU NEED

CAPPED CONTAINER

Usually used to store potato chips or breadcrumbs.

WAX PAPER

You'll need enough to cover the lid of the can.

CONSTRUCTION PAPER

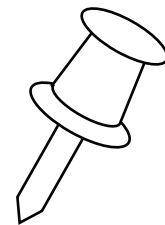
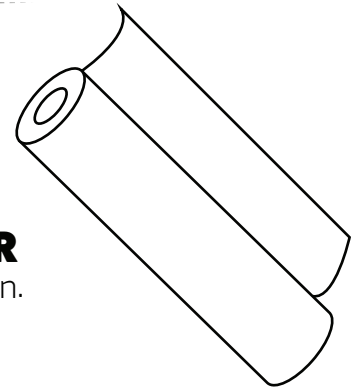
Pick your favorite color!

THUMB TACK

Be careful not to jab your thumb; ouch!

CRAFTING KNIFE

You need an adult to help.



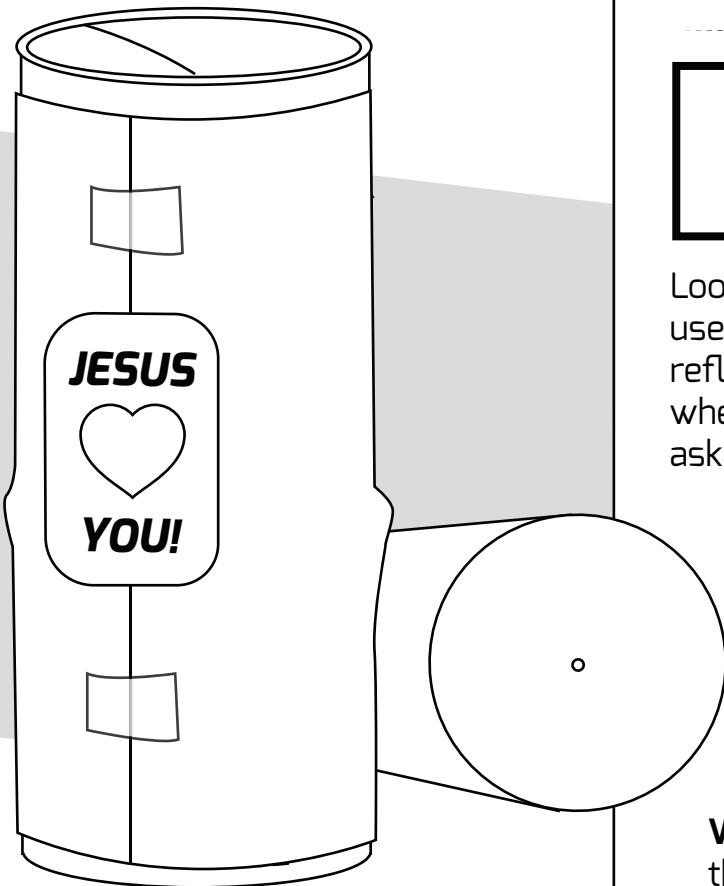
ABOUT

This activity may require assistance from an adult.

Look through the top of the can, where the lid used to be. The light will enter the chamber and reflect what it sees outside. It works better when there is a lot of light. If it's not working, ask an adult for help.

It's a camera! You might not be able to take pictures with your new scope, and it works as a camera does. Light bouncing off of objects in the room with go in through the hole at the bottom of the can, then it will be shone onto the lens – in this case, it's the wax paper.

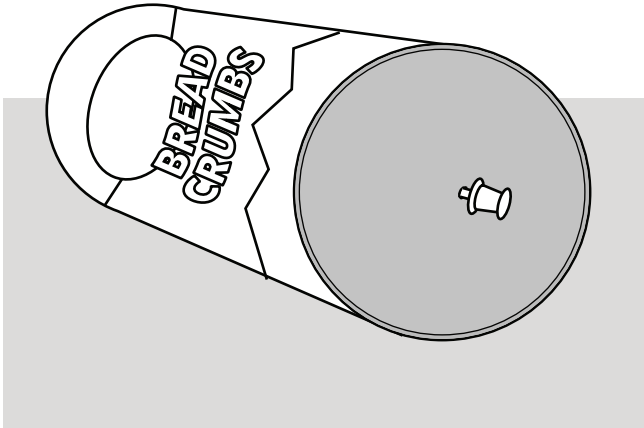
Why is everything upside down? Light enters the scope through the hole and is projected onto the lid in the device upside down.



ILLUSTRATED INSTRUCTIONS

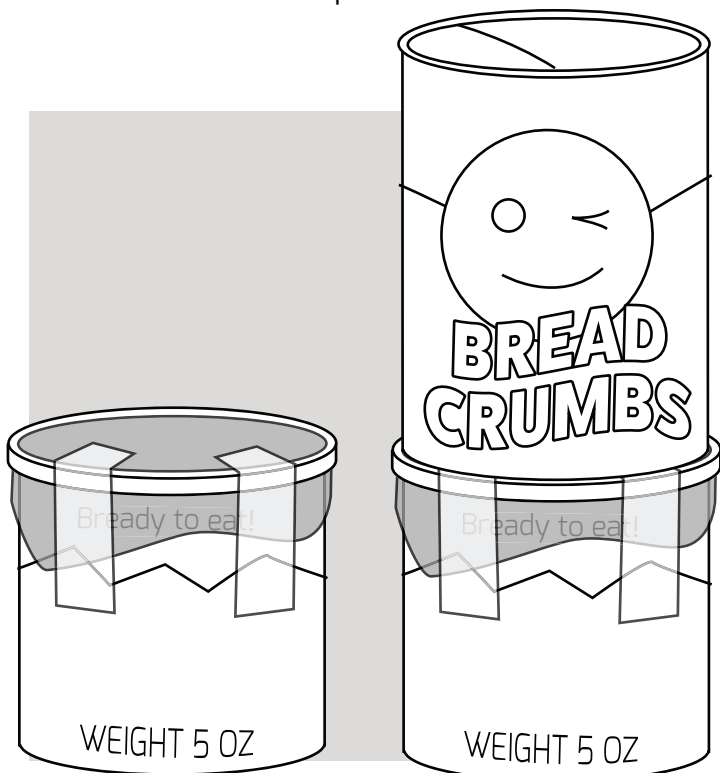
STEP 1

Flip the container upside down and poke a hole in the center of its bottom with a thumbtack. If that doesn't work, ask an adult to help using a hammer and a nail.



STEP 3

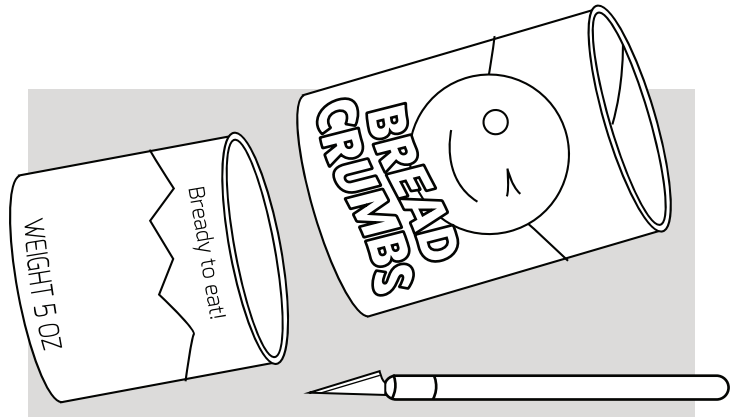
Place a sheet of wax paper on top of the bottom part of the container, then use the cap to hold it in place. Tape the lid down. Add the top of the can, then secure it with tape.



STEP 2

ASK AN ADULT TO HELP:

Use a crafting knife to cut the container in half.



STEP 4

Wrap it in your favorite color of construction paper. You can decorate it with stickers and other things. When it's finished, look through the top of the can. For best results, make sure what you are looking at is brightly lit. What do you see? Everything seems upside down! Can you see the world around you?

