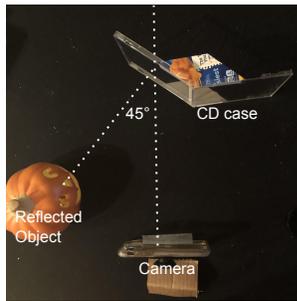


PEPPER'S GHOST:

What is Pepper's Ghost? - Pepper's ghost is an old theatre illusion used to create a ghost on stage. It is still used today in amusement park haunted house rides! Pepper's ghost also generates holograms on stage. Musicians that have passed away look like they are performing a concert.



Try it Yourself! - Grab a CD case, a toy to reflect, cardboard, tape, a flashlight, and the Pepper's ghost angles sheet. The audience doesn't see the glass or plastic but sees a reflection. SO it looks like a ghost or a hologram! The thing being reflected is 45° from the camera or audience so it is out of their line of sight.

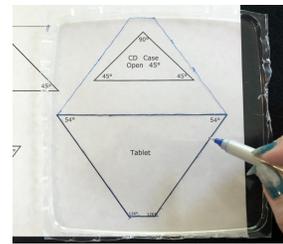
On the "Pepper's Ghost Angles" sheet there are templates for the CD case. Cut the "CD Case Open 135°" template out and trace two of them on cardboard. Tape the cardboard on the top and bottom of the CD case to hold it open. This will give you the proper angle to take a photo! Shine a flashlight on the toy to make the reflection clearer!

Materials(for the ghost pyramid): Clear sticky tape, clear shiny plastic (like from a container lid), a permanent marker, the "Pepper's ghost Angles" template sheet, phone, tablet or a screen that can lie flat.

Step 1: Cut out the flat part on the plastic take-away lid so that it lies flat.



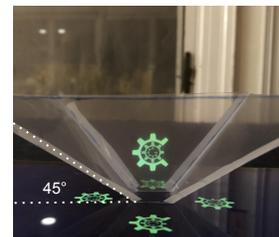
Step 2: Put the "Pepper's Ghost Angles" sheet underneath the plastic. Trace the outline of either the "cell phone" or "tablet" pyramid template. You will need to trace it out four times to form the pyramid



Step 3: Cut out the four shapes that you have traced onto the plastic. Start by taping two pieces together making sure to line up the edges. Then, tape another plastic piece onto those two. Finally, do the same with the last piece. Make sure the corners at the narrow end of each trapezoid match up because this is the part that the pyramid stands on.



Step 4: Tape the final edge to form a pyramid! Find a video for your pyramid by searching for "pyramid hologram" on YouTube. The videos look like four videos facing away from the center. Put the small end of the pyramid in the center of the screen to see the hologram illusion!



Troubleshooting: The Pepper's ghost illusion works better when the background is a dark color. Also make sure the subject being reflected is well lit on a dark colored paper or cloth.

