SCIENCE BEHIND THE EXPERIMENT:

Our eyes use a process call refraction to bend the light we see into objects that make sense to us.

The retina in the back of your eye sends the image to your brain—but the image it sends is upside down!

The mason jar is like a lens in this experiment. As light travels through this "lens", it bends, which can flip and warp the image.

When you move the paper behind the jar, you can watch the picture flip, which is just light refraction!

ADDITIONAL ACTIVITIES:

Write the word "star" on a piece of paper. Put this paper behind the jar. What happens to the word "star"? Try doing this with the words: live, pals, spoons. Does the same thing happen as it did with the word star?

Try drawing or painting a picture while squinting (which is having your eyes almost closed all the way). Does this make it harder or easier to draw or paint?

Do some research on the eyes of animals? Are animal eyes like human eyes?