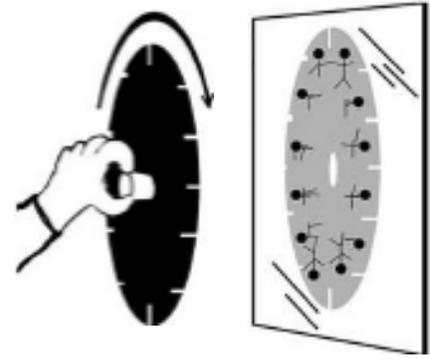
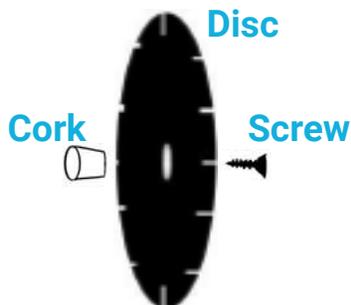


# HOW TO MAKE A PHENAKISTOSCOPE WITH THE GEORGE EASTMAN MUSEUM



## You will need:

- 8.5"×11" sheet of paper
- compass or other tool for drawing a circle
- a cork and a short screw to make the handle
- a mirror that is larger than your disc
- cardboard
- glue or gluestick
- scissors
- crayons, markers, pens, or pencils for making your own designs



## Steps

1. Use the compass or other tool to draw a circle with about an 8-inch diameter—or print out our designs and templates on the following pages.
2. Glue the paper to the cardboard and cut out the disc. Be sure to cut out the slots!
3. Draw each stage of the movement/action around the circumference of the disc. You can use the top, middle, and inner space for your drawings, but make sure to draw them in a circle between the slots. Try to make gradual movement changes from one picture to the next.
4. Put the screw through the center of the cardboard disc (from the front, where your picture is), and screw it into the cork on the other side.
5. Clasp the cork in one hand, hold the disc up to the mirror (with the image facing it), spin the disc, and look through the slots.

## What is a phenakistoscope?

Invented in 1831, the **phenakistoscope** (from the Greek words meaning “to cheat,” as it tricks the eyes) is a circular, slotted disc with a sequence of images between the slots on one side. The viewer would attach the disc to a handle, hold it up to a mirror at eye level, spin the disc, and look through the slots to see the reflected images appear to move. The slots function like a shutter in a motion picture projector. Without the interruption from a “shutter,” the images would look blurred.

Example



Draw Your Own Design!

