

Zoetropes

Items Needed:

Black or dark colored paper

White paper

White pencil

Ruler

Scissors

Paper plate or pie tin

Tape

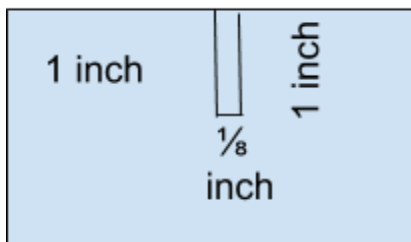
Thumbtack

Pencil with eraser

Markers/crayons/colored pencils, something to make a drawing

Instructions:

- Cut the black paper into a strip $17 \frac{1}{8}$ inches long by $2 \frac{1}{2}$ inches wide. You may need to tape two pieces of paper together to get the right length.
- Mark the black paper with notches. The notches should be $\frac{1}{8}$ inch wide by 1 inch high and spaced 1 inch apart:



- Cut out the notches.
- Tape the black paper into a circle.
- Center the black circle onto the plate and tape down.
- Cut the white paper into a strip 17 inches long by $1 \frac{1}{2}$ inch high.
- Draw a repeating pattern with slight changes to each drawing like waving arms or shapes getting a little bigger then smaller.
- Tape the white strip into a circle with the illustrations on the inside. Make sure that the white paper fits snugly inside of the black circle.
- Find the center of the plate and mark it.
- Push the thumbtack through the mark and into the eraser on the end of the pencil.
- Spin and enjoy.