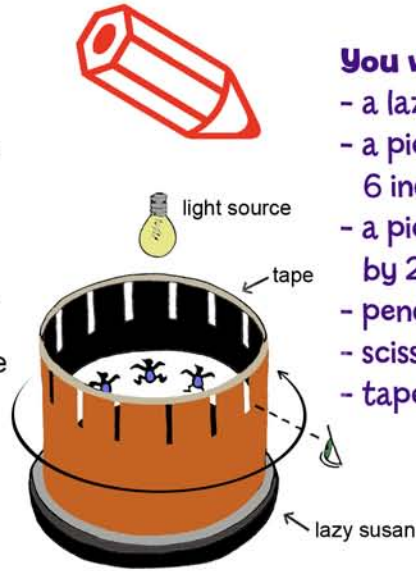


Discovery Room



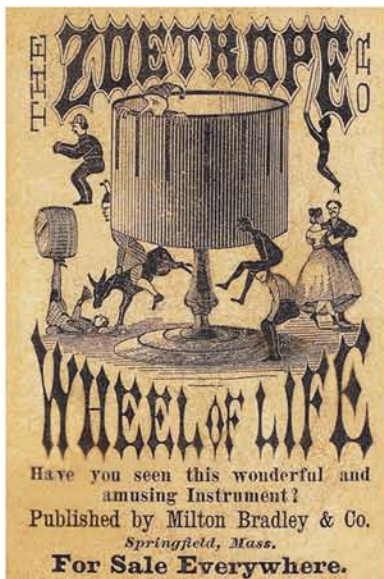
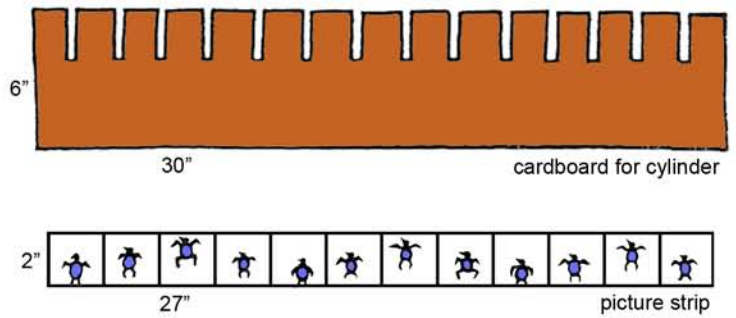
HOW TO MAKE A ZOETROPE

1. Cut 14 slots along one long edge of the cardboard. Slots should be 2 1/2 inches high by 1/8 inch wide and spaced 2 inches apart.
2. Tape across the slotted edge. Then tape cylinder together with a 1 1/2 inch overlap.
3. Draw a sequence of twelve pictures on the long piece of paper or print out one of our samples. Your drawings should show the progressive parts of a movement.
4. Put cylinder on lazy susan and place picture strip inside of it. Stand strip on bottom with pictures visible.
5. Spin lazy susan and look through the slots. You should see your pictures move!



You will need:

- a lazy susan
- a piece of thin cardboard 6 inches by 30 inches
- a piece of paper 2 inches by 27 inches
- pencil or marker
- scissors
- tape



WHAT IS A ZOETROPE?

A zoetrope (Greek for *wheel of life*) is an optical toy that presents a sequence of images to be viewed through slots to give the *illusion of motion*—when the eye sees a succession of still images at a quick enough speed, *persistence of vision* allows the brain to link them together. If the images are similar with small changes frame to frame, they will appear as smooth motion. Invented in 1834, the zoetrope has a rotating drum with slots at equal distances around its wall. A similar device, the praxinoscope (invented in 1877) uses angled mirrors in the center to view the strip.



ZOETROPE STRIP

cut out the 3 strips, match ends by numbers & tape together to make 1 long strip

1



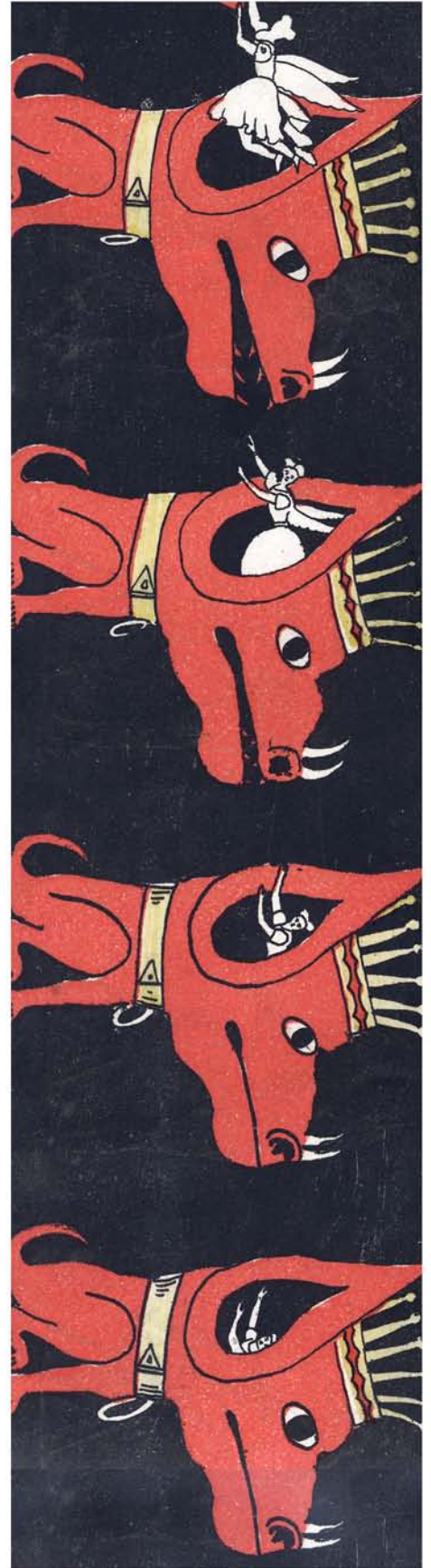
2

2



3

3



4

ZOETROPE STRIP TEMPLATE cut out the 3 strips and tape together to make 1 long strip

