

Moving Images:

Bringing the world closer

Making a zoetrope

Equipment

- Sugar paper
- Zoetrope template
- 16 cm diameter black zoetrope disc
- Scissors
- Roll of sticky tape
- Wooden dowel
- Stapler
- Glue
- Drinking straw
- Small wooden wheel
- Large wooden wheel

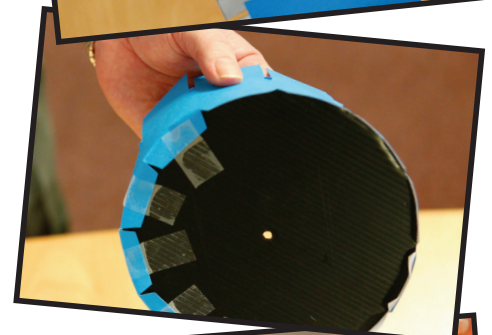
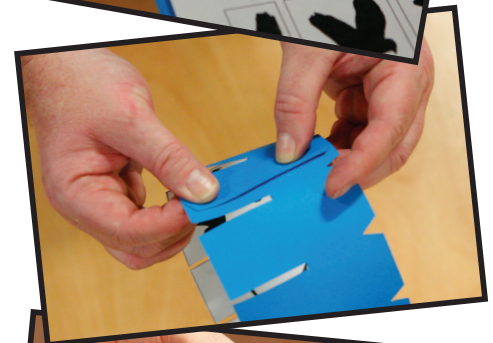
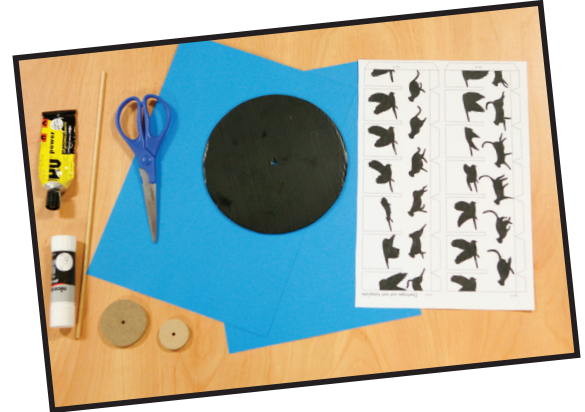
Instructions

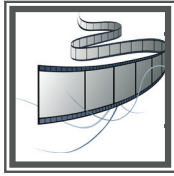
1 Stick the Zoetrope template onto the sugar paper and carefully cut around the shape.

2 Glue flap A to tail A and then flap B to tail B.

3 You should be left with a drum as shown in the picture. Fold the bottom tabs inward and stick them to the under side of the disc. Make sure the sugar paper is facing outwards!

4 Thread a straw onto the dowel.

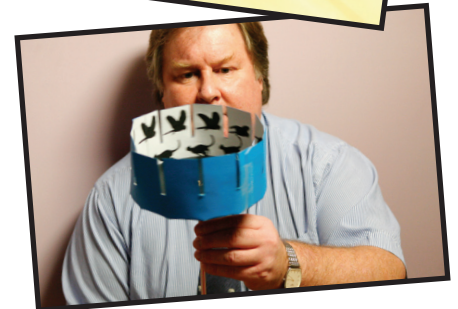
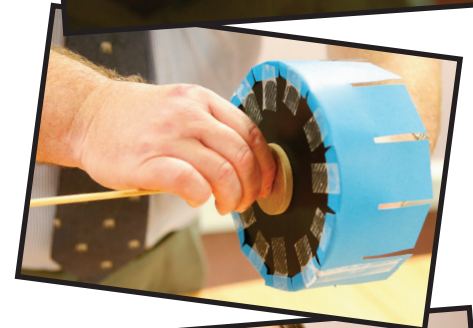




Making a zoetrope

Instructions continued

- 5 Push a small wooden wheel onto one end of a piece of dowel. Push a large wooden wheel onto the other end of the dowel.
- 6 Push a little of the dowel through the larger wheel and the base of the black disc and glue the disc firmly on to the wooden wheel.
- 7 To use the Zoetrope hold the straw, spin the bottom wheel and view through the slits.



Investigating the zoetrope images

- 1 What do you see when you spin the Zoetrope?
- 2 What happens to the bird wing when you change the speed?
- 3 What happens if you spin the zoetrope the other way?
- 4 Can you produce your own zoetrope template design?