

## Make a Thaumatrope

### What do you need?

- Cardboard cut into discs 8 cm in diameter
- Paper punch
- String cut into 30cm lengths
- Coloured pencils, crayons or markers



### How it Works?

You are able to see both sides of the disc because of persistence vision. Your brain holds on to each picture for a fraction of a second. If you spin the disc fast enough the two images become one. Movies work in the same way

1. Copy the template on the reverse of this handout and cut out the **Thaumatrope**
2. Draw a picture that can be separated into two parts and that can be superimposed on each other e.g. Bird and a Bird cage
3. Take a disc and draw one part of the picture on each side e.g. bird cage. The picture on the second side should be drawn upside down. Make sure both pictures line up. Colour the picture brightly
4. Punch two holes directly opposite each other near the edge of the disc. Thread a length of string through each hole and tie firmly
5. To work the Thaumatrope 'wind it up' by twisting the two lengths of string until they begin to curl
6. Hold the Thaumatrope at eyelevel with a length of string in each hand and gently pull outwards

**What do you see?**



