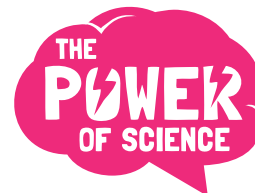


# The Power of Light and Vision

Try these activities to demonstrate the power of light and how it affects the way we see the world.

SCIENCE  
WEEK

9-16 NOVEMBER 2014



## THE MAGIC ARC - CAN YOU BELIEVE YOUR OWN EYES?

### YOU WILL NEED

Two arcs made from the attached template (any colour you wish), an audience. Strong card is recommended.

### BASIC INSTRUCTIONS

*Feel free to experiment!*

1. Hold up the arcs vertically stacked as shown.
2. Ask your audience which is the longer, note their answer.
3. Switch the arcs about vertically, ask again.
4. Show the audience that the arcs are actually the same size!



### INVESTIGATE

- What will be the illusion if you have three or more arcs?
- Will it be the same with the arcs held "upside down"?
- What about sideways - will that affect the illusion?

### WHAT IS HAPPENING?

This is a very famous and ancient illusion - your eyes are seeing exactly what is there, but perception is stronger and fools our brain is stronger.

### EXPLORE MORE...

There are many other optical illusions available to explore at <http://goo.gl/rnvdNs>

# THE MAGIC ARC - TEMPLATE

