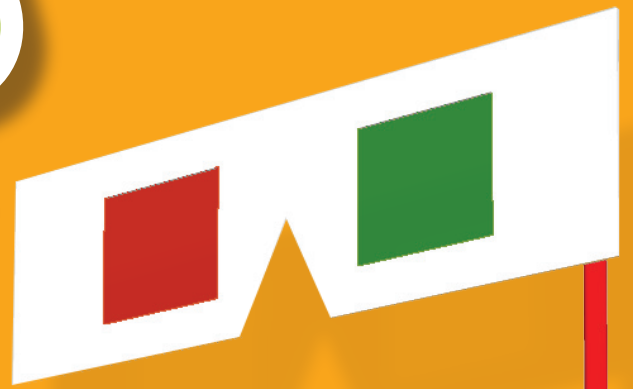


Coloured Glasses



The world is a colourful place but what happens if some of that coloured light becomes blocked.

What you need:

- Card eyepiece template x1
- Straw
- Cellophane (1 x red and 1 x green)
- Sticky Tape
- Scissors



What to do?

- Cut out your glasses. Don't forget the two square holes in the middle.
- Fold a strip of red cellophane in half to make a double layer square and tape edges.
- Fold a strip of green cellophane in half to make a double layer square and tape edges.
- Tape (on the edges only) your red cellophane over one square hole and the green cellophane over the other.
- Tape your straw handle to one edge of the glasses.
- Hold your glasses to your nose and take a look at things around you. Do they look the same as before?

What's going on?

The coloured squares act like a filter, blocking some colours of light from passing through. The red eyepiece of the glasses lets red light reach your eye and the green lens lets green light reach your eye. Most objects we see reflect a mix of coloured light but because these filters block all colours except for their own colour, the objects will appear different depending on which eyepiece we are looking through.

Cellophane is often not a pure colour so you may experience slightly different results to what is described here for pure colour filters.

Explore more

- Close one eye, or look through one coloured square at a time. Find objects that look to change colour depending on what cellophane filter you are looking through.
- Use felts to do a drawing at home. Does looking through the filters change how it looks? Can you hide a secret message in your drawing that can't be seen when looking through one of the filters?