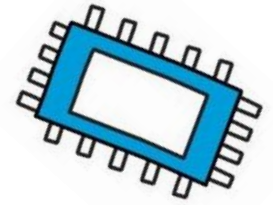


TWEENS DIY PACKAGE AFTERIMAGES

This programme provides Tweens the creative space to problem solve through a do-it-yourself activity. Just follow the instructions and have fun!



MATERIALS NEEDED

Digital display (computer or phone), OR colour printer

Stopwatch

If you don't have a printer, you can also colour and replicate the circle! Try to follow the image as closely as possible.



Watch your screen time!
Remember to give your
eyes a break when
looking at the phone.

INSTRUCTIONS

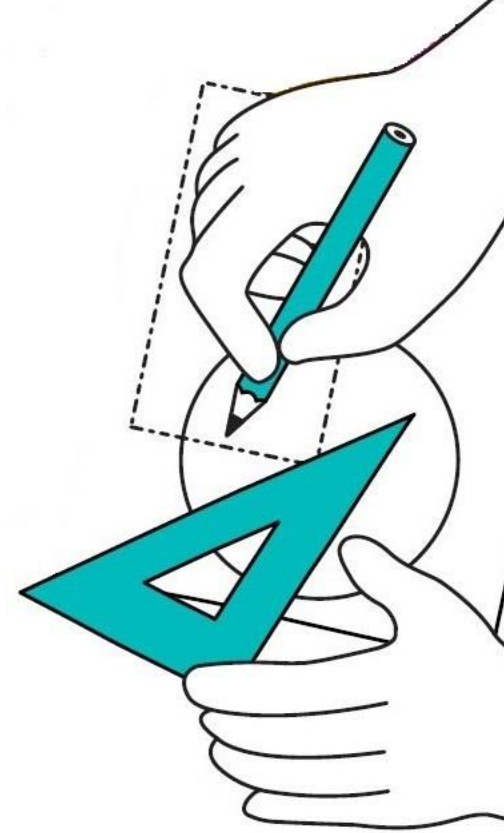
Stare at the image of the coloured circles (focusing on the small white spot in the center).

- After staring at the circle for 30 seconds look at the white space to the right of it. *What do you see?*
- *How are the colours in each part of the afterimage different from the parts of the original coloured circle?*

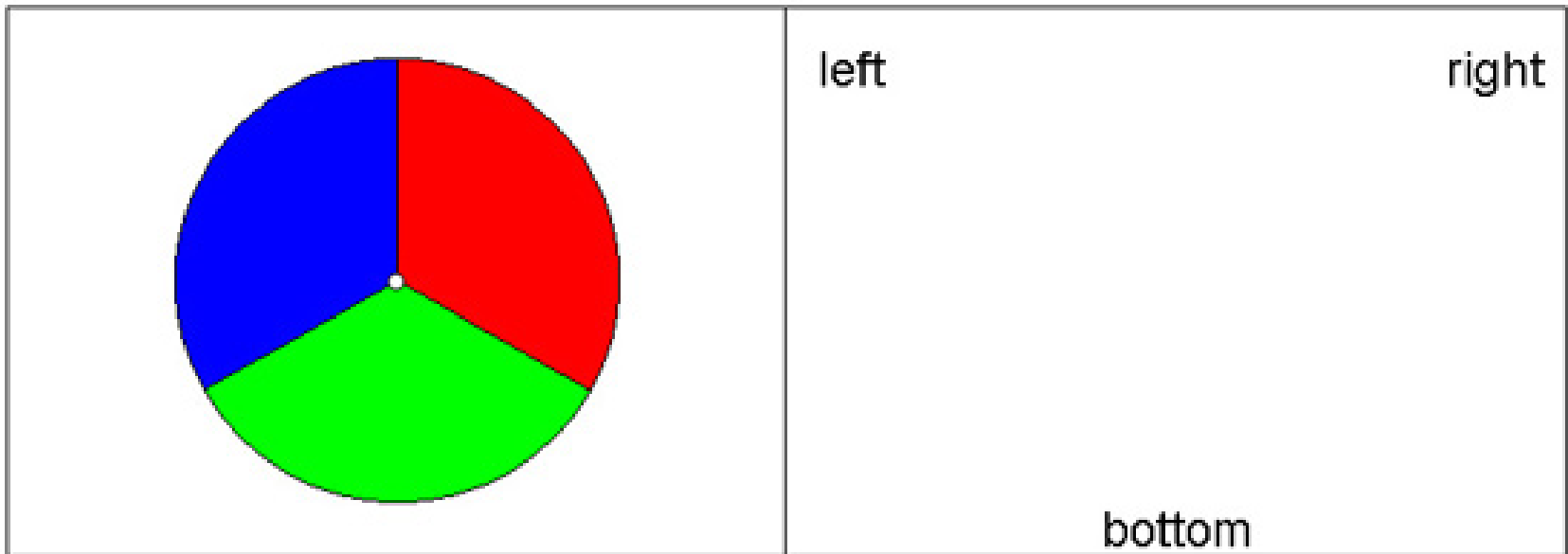
Top left: yellow

Top right: blue

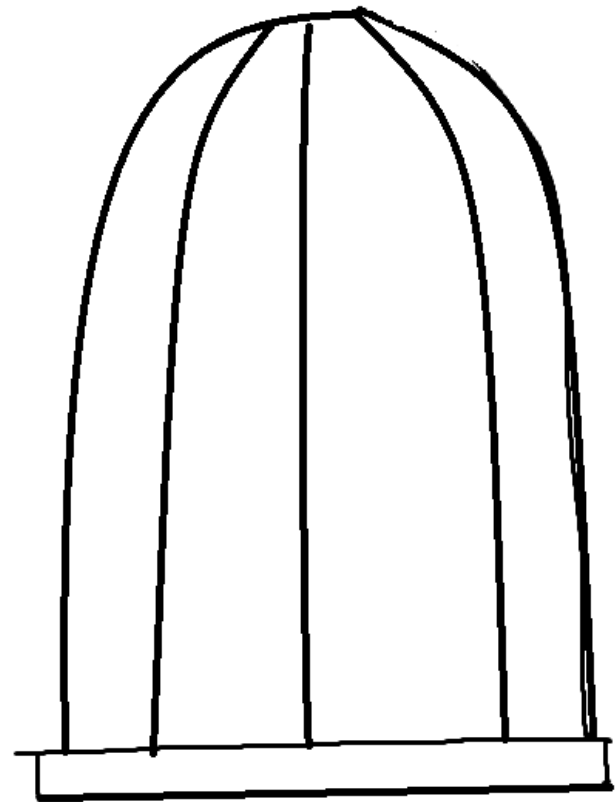
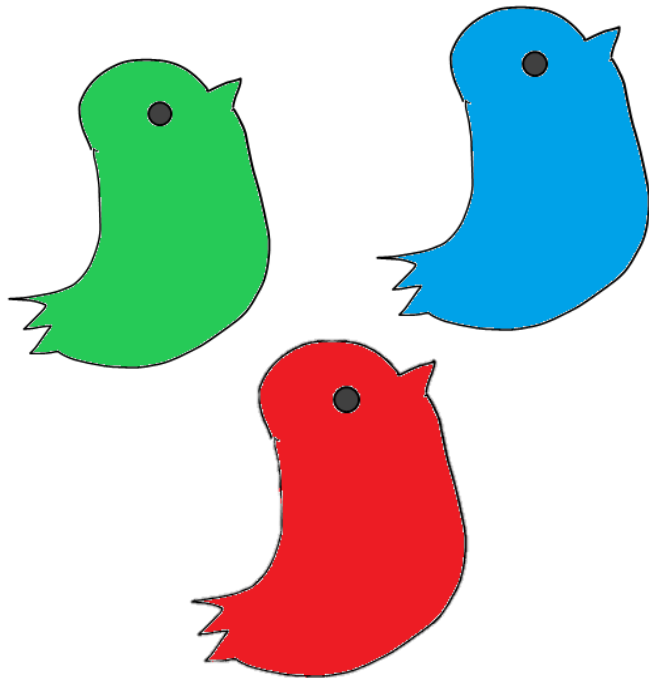
Bottom: magenta



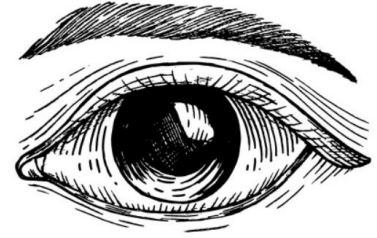
LOOK AT THE WHITE SPOT FOR 30 SECONDS,
THEN LOOK AT THE WHITE SPACE ON THE
RIGHT.



YOU CAN ALSO TRY LOOKING AT THE
COLOURED BIRDS FOR 30 SECONDS BEFORE
LOOKING AT THE BIRDCAGE. WHAT DO YOU
SEE?



DID YOU KNOW?



Humans perceive colour using different cone cells that mainly respond to red, green, or blue light. For example, when you look at a blue image, the blue cones are stimulated. These cone cells work together to allow us to view images of different colours that are a mixture of the primary colours. Viewing a white image stimulates all three cone cells.

When you stare at a red object, then quickly look at a white area afterwards, you will see an afterimage of the same size and shape but in a different colour (blue-green). This is because the cone cells involved in perceiving one colour become fatigued, and will need some time to recover. After a few seconds, the afterimages fade as the fatigued cone cells recover.

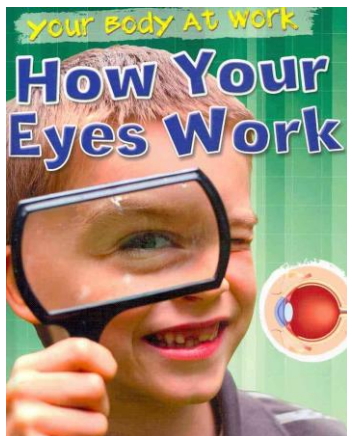
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Title: How Your Eyes Work (Your Body at Work)

Author: Carol Ballard

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Publisher: Gareth Stevens, 2011

