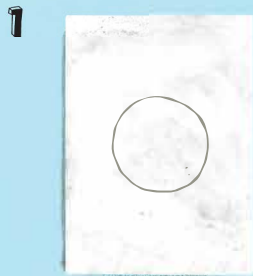


DRAW OPTICAL ILLUSIONS

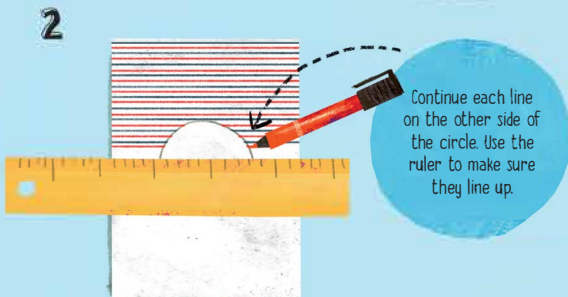
Follow the steps on these pages to draw pictures that play tricks on your eyes.

POP OUT

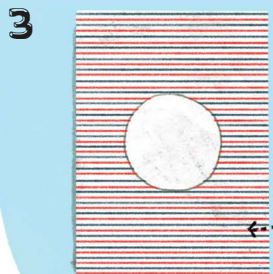
Try this technique to create an illusion of a hovering sphere.



Put a cup upside down in the middle of a piece of paper. Draw around it in pencil.

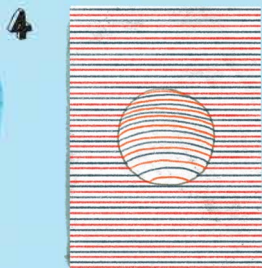


With a ruler, use a red and blue pen alternately to draw horizontal lines across the paper: leave small gaps between the lines. Don't draw inside the circle.



Keep going until it looks like this.

The more lines you draw, the better the illusion looks.



Next draw red or blue curved lines to connect the lines on either side of the circle.

Now look at your picture. The circle should look 3D.

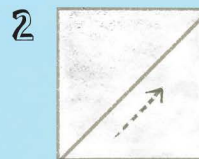
You could draw around other objects in step 1, to make different hovering shapes.

3D HOLE

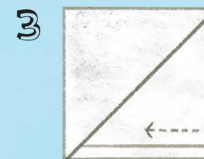
Make a hole appear in a piece of paper by drawing a square and some lines. You could use a ruler to help you draw and measure the lines, but they don't have to be too neat.



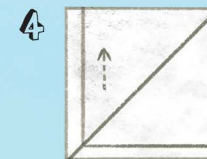
Use a pencil to draw a square in the MIDDLE of the paper: Each side should be about 9cm (3.5in) long.



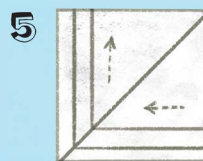
Draw a diagonal line from the bottom corner to the top.



Draw a line about 1cm (0.5in) above the bottom edge, from the right to the diagonal line.



Continue the line up to the top, about 1cm (0.5in) from the left edge.



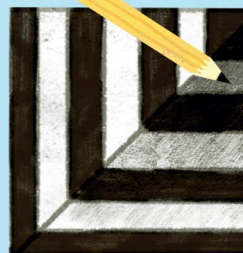
Repeat steps 3 and 4 five more times. Leave similar-sized gaps between the lines.



Fill in the small square in the top corner with a black felt-tip pen. Then fill in every other row.

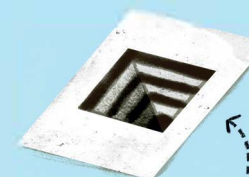
Use a pencil to shade the white spaces, to the right of the diagonal line. They should be less and less dark the further they are from the black square.

Keep your pencil at the same angle as the diagonal line.

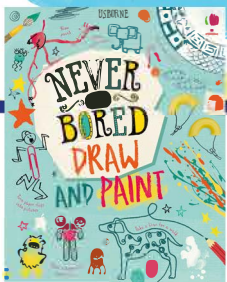


Press your pencil firmly...
...less firmly...
...and lightly.

Turn your picture around and look at it from the side.



The illusion works even better if you take a photo of it from this angle.



Usborne Activities

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