

Pixel Art

Pixels – What are they?

A pixel is the smallest element in a whole image! Computer screens display thousands of pixels, and these are put together to create pictures! They are made up of 3 main colours: red, green and blue.

Challenge – Pixel Art

Use the grids provided to create some pixel art! Colour in the squares labelled 1 and leave the 0s blank – this will reveal a hidden piece of art! Then create some of your own using the empty grids!

What You'll Need

Pens/pencils (at least two different colours)
The pixel art grids – if you don't have access to a printer, refer to last page.

Why are we doing this?

Pixels make up all the images you see on your computer screen, television or in video games! By doing this activity, you can start to see how pixels work and how they create images.

0	0	1	0	0	0	0	1	0	0
0	1	1	1	0	0	1	1	1	0
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	0
0	0	1	1	1	1	1	1	0	0
0	0	0	0	1	1	1	0	0	0
0	0	0	0	0	1	0	0	0	0

0	0	1	0	0	0	0	1	0	0
0	1	1	1	0	0	1	1	1	0
0	1	1	1	0	0	1	1	1	0
0	1	1	1	1	1	1	1	1	0
0	1	1	1	1	1	1	1	1	0
0	1	1	1	1	1	1	1	1	0
0	0	1	1	1	1	1	1	0	0
0	0	0	1	1	1	1	0	0	0

How to Create Your Own Grids at Home

What you'll need:

Pencil or pen

Ruler

Plain paper

1. Gather what you'll need and check that your pencil is sharp/your pen has plenty of ink.
2. Decide how big you want your grid to be – ours are 10 across and 8 down.
3. Measure out your grid (we suggest 1cm per square) and mark the corners. Then, measure where each square is going to be, using our grids as a guide.
4. Using a ruler, draw lines connecting the corners.
5. Use your ruler to create the squares inside of the grid.
6. Insert the 1s and 0s either as shown, or in the positions you want to put them to create your own art.