

ACTIVITY TITLE:

Use pixels to make a picture



BOOT UP:

Did you know that pictures you see on a device are made up of small dots or squares called **pixels**. For example a photograph might look like this on a computer screen...



...but it is really made up of pixels like this!

LOADING...

The computer has given you some code to create a picture. Each piece of code equals a box that must be filled in to make a pixel. The first line is already filled in for you. Can you fill in the rest?

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Code
1															A1 B1 C1 L1
2															B2 L2
3															B3 L3
4															B4 D4 E4 F4 H4 I4 J4 L4 M4 N4



5																			B5	D5	H5	L5	N5				
6																			B6	D6	E6	H5	L6	N6			
7																			B7	D7	H7	L7	N7				
8																			B8	D8	E8	F8	H8	I8	J8	L8	N8

ACTIVITY HOSTS

Objective: Understand how technology works – take a closer look at digital displays

Take a look at the website <https://www.nga.gov/education/kids.html> for ideas on how pixels form images. Children can explore these features themselves. The results from the code on the previous page should look like the following:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Code
1	█	█	█									█			A1 B1 C1 L1
2	█														B2 L2
3	█														B3 L3
4				█	█	█		█	█	█		█	█	█	B4 D4 E4 F4 H4 I4 J4 L4 M4 N4
5													█		B5 D5 H5 L5 N5
6															B6 D6 E6 H5 L6 N6
7															B7 D7 H7 L7 N7
8															B8 D8 E8 F8 H8 I8 J8 L8 N8

NEXT STEPS:

Create another pixel image using another code and the blank form below:



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Code
1															
2															
3															
4															
5															
6															

FINAL STEP!

Activity Hosts - Don't forget to register your activities on www.techweek.ie.

