

Channel detective

A picture is three grids of numbers stacked up: red, green and blue.

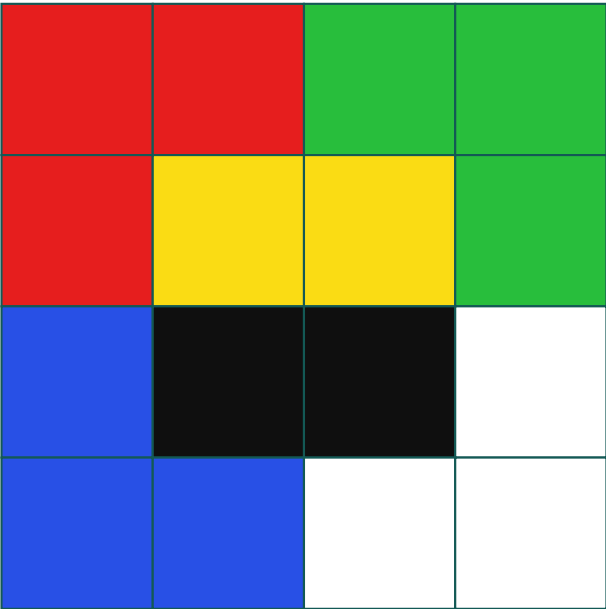
Name: _____

Date: _____

Part 1 Split the picture into its channels

For each cell, write **0** (off) or **255** (full on) in each channel grid.

The picture (4 × 4)



Red channel

Green channel

Blue channel

Colour mixing: red is (255, 0, 0) . Yellow is red + green. White is all three on. Black is all three off.

Part 2 Now go backwards

Here are the three channels of a different 3×3 picture. Write the colour of each cell in the grid below.

Red channel

0	255	0
255	0	255
0	255	0

Green channel

255	255	255
255	0	255
255	255	255

Blue channel

0	0	0
0	0	0
0	0	0

The picture (write a colour name in each cell)

Word bank

red green blue
yellow white black

? Which channels are on for a yellow cell?
