

## C4.4 Where do the colors of the rainbow come from? – Tracking down technology

2.	Colors of felt-tipped pens	Mixed color
	yellow + magenta	red
	yellow + cyan	green
	cyan + magenta	blue
	yellow + magenta + cyan	gray/black

3.	Colors of felt-tipped pens	Mixed color
	no felt-tipped pens (sheet remains white)	white*

\* The technical umbrella term for white, black, and gray is “achromatic”; the colors differ only in their brightness. White and black are simply the two extremes on the brightness scale.

4.	Colors of the flashlights	Color of the light spot on the wall
	red + green	yellow
	red + blue	magenta
	blue + green	cyan
	red + blue + green	white

5. You recognize individual points of colored light and not uniform coloring.
6. You recognize only the colors red, green, and blue.
7. Depending on the color and brightness, individual points are either switched on at various levels of brightness, or they are switched off.
8. Guess based on the mixing experiment (see 4.):
  - White area: All points of color are on.
  - Black area: All points of color are off.
  - Colored area: Red, green, and blue points are switched on at various levels of brightness.