

Mixing primary colors of light				
How many colors do you see in the light pattern on the screen?				

Use colored pencils to dra	w the light pattern in the space belo	w. Pay attention to the colors of li		
Use colored pencils to drage when two light beams	w the light pattern in the space belo	w. Pay attention to the colors of li		
		w. Pay attention to the colors of li		
see when two light beams		w. Pay attention to the colors of l		
see when two light beams	overlap.	w. Pay attention to the colors of li		

c. What color of light do you see when two LED light beams overlap? Write your answers in table 1.

Table I: Mixing primary colors of light

LED color combination	Color you see
Red + Green	
Green + Blue	
Blue + Red	
Red + Green + Blue	

Record your observations in Table 2.

Table 2: Examining LEDs

Red LED	Green LED	Pine ren
	White LED	
	ndet, er er a sam sa	ever ich symbol
Drawing conclusions		
Compare the colors in the red LED to the range of colors?	o those in the green LED. What	are the similarities and differenc
Compare the colors in the green LEI differences in the range of colors?	D to those in the blue LED. What	at are the similarities and
How do the colors in the white LED	compare to the red, green, and	blue LEDs combined?
The state of the s		
The red LED consists of a white LE	ED covered with a red filter. Wh	at does the red filter do?
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What do color filters do?		
		1 1" E
If you wanted to get yellow light, v	what part of the spectrum would	the color filter have to absorb?
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