



# Theatre Virtual Learning

## Introduction to Theatre Design & Production Lighting Design

**April 14, 2020**



Lesson: April 14, 2020

**Objective/Learning Target:**

Students will review basics of lighting terminology, color in lighting, and design tools.

# The Basics of Lighting

## Let's Get Started / Warm Up Activities:

While watching David Hockney discuss the magic of theatrical lighting, think of the role of color in lighting design.





## Lesson/Activity

In the previous lessons, you learned a lot of new information on color in lighting, circuitry and gobos. Today let us review the information!

1. On each slide there will be multiple questions. Using a piece of paper, do your best to answer each. Make sure you label the numbers.
2. You will then have the answers to check your learning.



# Practice

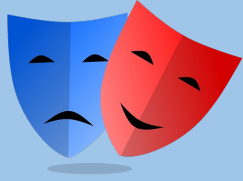
1. What are the primary colors of light?
2. When shining all together at the same intensity, what color do the primary colors make?
3. What are the secondary colors?
4. What color does red light reflect?
5. Why is it important to have all of the primary colors represented in your light plot?
6. If a costume designer has a lady in a long red gown standing on a balcony, can the light designer have only blue lights to represent night? Why?
7. If you are on a light crew and need a purple gel, but you do not have one, can you just use a red and a blue gel together to make the purple one? Why?



# Practice Answers

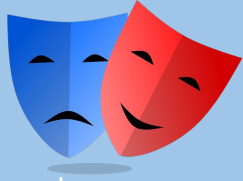
Check your answers:

1. Red, Blue & Green
2. White
3. Magenta, Amber & Cyan
4. Red
5. You need to be able to accurately reflect all of the colors placed on stage.
6. No. The red gown would no longer look red. It would look black.
7. No. The colors would filter each other out and you would be left with none.



# Practice

8. How many watts of electricity can one circuit usually hold?
9. Describe what a gobo is/does.
10. What is the first step in creating a light plot?
11. How many instruments need to be placed on each area to have one realistic light cue?
12. Why is it important to designate the area as you add the instruments on the plot?
13. When selecting colors, what is the difference between a day amber and a night amber?
14. What colors can be used for dimension lights?
15. What information will a data sheet tell a light technician that is hanging the lights for a show?

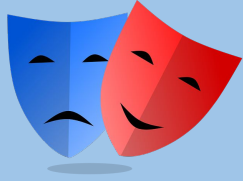


# Practice Answers

Check your answers:

8. 2400 watts
9. A gobo is a metal template that creates a pattern on stage.
10. Divide the stage into lighting areas
11. 3 instruments. You need a key, fill and dimension for each cue.
12. So you do not get confused as to where each light is focused.
13. The day amber is a softer peachy/yellow color and the night is a deeper almost orangy color.
14. Any color except green, although hot pinks look good.
15. For each instrument it tells they type of light to hang, where to hang it, where to focus it, what color it should be, where to plug it in, how many watts are in the instrument and any special notes.





CONGRATS! How did you do?

