

Light
Changes to the Teacher's Guide

Since publication of the *Light* Teacher's Guide corrections have been made to information found in the unit's printed materials. Please replace the page in your text with the revised page provided.

Corrections are as follows:

Light Teacher's Guide, page 141,
Table 12.1 answer for question 6

Revise the answer for Teacher's Guide
question 6 to read:

A. 15 mm

B. 23 mm

(1 point for each correct measurement
accurate to the nearest mm)

This errata set includes the following:

- For the *Light* Teacher's Guide – revised page 141

Photocopy and distribute this new instruction page as needed.

If you have questions about these changes or about the module in general, call Carolina's product information staff at 800-227-1150 (8 am–5 pm ET, M–F), or email stcms@carolina.com.

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Carolina Biological Supply Company

800.334.5551

www.carolina.com

ASSESSMENT

- Use the outline students complete under Table 1 on Student Sheet 12.1 to assess their skills at constructing a data table.
- Use the completed data table and the paragraph students write in the bottom box of Table 1 to determine whether they have observed all the combinations of additive color mixing.
- Use students' explanations in response to A and B under "Reflecting on What You've Done" on Student Sheet 12.1 and their description in response to C to determine whether they can distinguish between additive and subtractive color mixing.
- A rubric for Student Sheet 12.3: Sample Assessment Questions for Part 1 is provided in Table 12.1.

Table 12.1 Scoring Rubric for Sample Assessment Questions on Student Sheet 12.3

Question	Answer	Points
1.	A	1
2.	B	1
3A.	A	1
3B.	A ray diagram showing how each disk forms a shadow on the screen	1
4.	Radio waves, infrared, green light, violet light, ultraviolet, X rays, gamma rays	1
5.	Chemical potential → electrical energy → heat and light	1
6.	A. 15 mm B. 23 mm (1 point for each correct measurement accurate to the nearest mm)	2
7.	A	1
8.	A correctly labeled diagram showing rays with arrows (1), the rays from the object crossing over at a pinhole (1), and an inverted image (1) Use of ruler to draw the rays (1) Correct labels for object, image, screen, and pinhole (4)	8
9.	(Refer to diagram of the red car shown in Lesson 11 for guidance in assessing students' answers.) Diagram (or description) should refer to white light striking the shirt (1), red light being reflected from the shirt (1) to the eye (1) of the observer, other colors in white light being absorbed by the red shirt (1).	4
10.	One point for each correct missing color. Red (left), white (center), purple/magenta (top center), cyan/green-blue (right).	4
Total		25